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CHLORIS MELVILLIANA.

A

LIST OF PLANTS

COLLECTED IN

MELVILLE ISLAND,

(LATITUDE 74°—75° N. LONGITUDE 110°—112° W.)

IN THE YEAR 1820;

BY THE OFFICERS OF THE VOYAGE OF DISCOVERY

UNDER THE ORDERS OF

CAPTAIN PARRY.

WITH

CHARACTERS AND DESCRIPTIONS

OF THE

NEW GENERA AND SPECIES.

BY

ROBERT BROWN, F.R.S. AND L.S.

MEMBER OF THE IMPERIAL ACADEMY NATURÆ CURIOSORUM, OF THE ROYAL ACADEMY OF SCIENCES OF STOCKHOLM, AND OF THE ROYAL SOCIETY OF COPENHAGEN;

CORRESPONDING MEMBER OF THE ROYAL ACADEMIES OF SCIENCES OF PARIS, BERLIN, AND MUNICH,

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*** The following List is printed as No. XI. of the APPENDIX to Captain Parry's Journal of his First Voyage, commencing at page cclix.

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A LIST OF PLANTS,

COLLECTED IN

MELVILLE ISLAND.

THE following list of the Plants observed in Melville Island, chiefly in the vicinity of Winter Harbour, is drawn up from the Herbaria of Captain Sabine, Mr. Edwards, Mr. James Ross, Captain Parry, Mr. Fisher, and Mr. Beverley, whose names are here given in the order of the extent of their collections.

To Captain Parry, Mr. Edwards, Mr. Ross, and Mr. Fisher, I am indebted for complete series of specimens of their respective collections; and I have to offer my acknowledgments to Captain Sabine for having allowed me freely to examine his more extensive herbarium, and to retain it until he was about to leave England, in October, 1821, when the whole, in compliance with his request, was returned to him.

The delay that has taken place in the publication of the present account has been, in part, owing to the state of my health during a considerable portion of the time that has elapsed since the collections were placed in my hands. I have also experienced much greater difficulty than I had anticipated in determining many of the species; arising either from their extremely variable nature, from the incomplete state of the specimens contained in the collections, or from the want of authentic specimens of other countries, with which it was necessary to compare them. I may notice, likewise, as a third cause of the delay, the greater extent of my original plan, which included remarks on the state and relative proportions of the primary divisions and natural orders contained in the list; a comparison with the vegetation of regions of nearly similar climates; and observations on the range of those species common to Melville Island and other parts of the world. Towards the completion of this plan I had made considerable progress.

But to have satisfactorily treated some of the subjects referred to would have required more time than I have had it in my power to devote to them, and in several cases better materials than I have hitherto been able to obtain.

I have consequently found it necessary to relinquish, for the present, this part of my plan*, and to confine myself to a systematic list, adding only characters and descriptions of the new or imperfectly known genera and species; the only indication left of my intention to treat any of the subjects alluded to being a greater number of references to authors than is absolutely necessary for the present list, though essential to my original design.

With this more limited plan, and with its execution, as far at least as regards the determination of several of the species, I am so little satisfied, that had the publication depended entirely on myself, and related solely to the present essay, I should have deferred it still

* I shall here offer a single remark on the relative proportions of the two primary divisions of Phænogamous Plants.

In my earliest observations on this subject I had come to the conclusion that from 45° as far as 60° or perhaps 65° of North Latitude, the proportion of Dicotyledonous to Monocotyledonous plants gradually diminished. (*Flinders' voy.* 2. *p.* 538.) But from a subsequent examination of the list of Greenland plants, given by Professor Giesecke, (Art. Greenland, in Brewster's Edinburgh Encyclopedia,) as well as from what I had been able to collect respecting the vegetation of alpine regions, I had supposed it not improbable that in still higher latitudes, and at corresponding heights above the level of the sea, the relative numbers of these two divisions were again inverted; (*Tuckey's Congo*, *p.* 423.) in the list of Greenland plants referred to, Dicotyledones being to Monocotyledones as four to one, or in nearly the equinoctial ratio; and in the vegetation of Spitzbergen, as well as it could be judged of from the materials hitherto collected, the proportion of Dicotyledones appearing to be still further increased.

This inversion in the cases now mentioned was found to depend at least as much on the reduction of the proportion of Gramineæ, as on the increase of certain Dicotyledonous families, especially Saxifrageæ and Cruciferæ.

The Flora of Melville Island, however, which, as far as relates to the two primary divisions of Phænogamous plants, is probably as much to be depended on as any local catalogue hitherto published, leads to very different conclusions; Dicotyledones being in the present list to Monocotyledones as five to two, or in as low a ratio as has been any where yet observed; while the proportion of Grasses, instead of being reduced, is nearly double what has been found in any other part of the world; (see Humboldt, in Dict. des Sciences Nat., tom. 18, table at p. 416.) this family forming one-fifth of the whole Phænogamous vegetation.

longer, probably until the return of Captain Parry from the arduous enterprise in which he is now embarked.

I have, however, to express my regret for the delay that has already taken place, as it has prevented the appearance of the valuable memoirs in other departments of Natural History, which have been long ready for publication; and also as it has till now deprived Botanists of the excellent figures so admirably illustrating the structure of the plants selected for engraving, and for which it is hardly necessary to add that I am indebted to the friendship of Mr. Bauer.

DICOTYLEDONES.

RANUNCULACEÆ.

1. Ranunculus nivalis, foliis radicalibus elongato-petiolatis dilatatis lobatis: lobis subovatis; caulinis subsessilibus palmatis, caule erecto subunifloro, petalis obovatis integerrimis longioribus calyce hirsutissimo, stylis rectiusculis ovaria glabra æquantibus.

Ranunculus nivalis, *Wahlenb. lapp. p.* 156. *Schlechtend. ranuncul. sect. post. p.* 14.

β. folia radicalia basi cuneata vix ad medium lobata, lobo medio semiovato basi latiore, petala orbiculato-obovata calyce hirsutissimo sesquilongiora.

Ranunculus nivalis β. *Wahlenb. lapp. p.* 157. (exclus. syn. Martens spitzb.)

Ranunculus sulphureus, *Soland. in Phipps' voy. p.* 202, (fide speciminis unici, biflori absque foliis radicalibus, in Herb. Banks.) *De Cand. syst. nat. p.* 274, (exclus. syn. Martens spitzb., Laxmanni, Willdenovii et Smithii.) *Br. spitzb. pl. in Scoresby's arct. reg.* 1. *append. p.* 75. *Richardson in Franklin's journ. p.* 742.

γ. folia radicalia basi subcuneata v. transversa alte lobata, lobo medio cuneato-obovato basi angustiore.

Obs. Varietas γ. cujus exemplaria duo tantum à nobis visa proxime accedit α. quæ, in Insula Melville haud observata, sequentibus notis distinguenda.

α. folia radicalia reniformia alte lobata, lobo medio cuneato-obovato basi angustiore.

Ranunculus nivalis, *De Cand. syst. nat.* 1. *p.* 273, exclus. cit. ad *Sw. in act. holm.* 1789. *p.* 47. quæ R. pygmæus, et syn. *Martens spitzb.* ad var. β. pertinente.

A. R. nivali differt R. frigidus *Willden.* foliis radicalibus minus alte incisis lobulis pluribus, petalis obcordatis venis anastomozantibus, quæ in R. nivali distinctæ, et statura paulo majore.

2. Ranunculus Sabinii, foliis radicalibus elongato-petiolatis tripartitis: lobis ellipticis: lateralibus semibifidis; caulinis sessilibus tripartitis linearibus, calycibus hirsutis petala retusa subæquantibus.

Obs. Planta inter R. nivalem et pygmæam media in Herb. D. Sabine exstat, ulterius examinanda, forsan haud distincta à R. nivali cujus cfr. ic. Flor. Dan. 1699, ubi petala retusa et folium radicale pinnatifidum.

3. Ranunculus hyperboreus, foliis petiolatis trifidis: lobis divaricatis obtusis: lateralibus subbifidis medio integerrimo, caule repente, acheniis lævibus stigmate sessili apiculatis.

Ranunculus hyperboreus, *Rottb. in act. Hafn.* 10. *p.* 458. *t.* 4. *n.* 16. *Flor. Dan.* 331. *Zæg. flor. island. in Olafs. reise* 2. *p.* 237. *Willden. sp. pl.* 2. *p.* 1322. *Pers. syn.* 2. *p.* 104. *Wahlenb. lapp. p.* 158. *De Cand. syst. nat.* 1. *p.* 272. *Schlechtend. ranuncul. sect. post. p.* 12.

Ranunculus foliis subrotundis trilobis integerrimis, caule repente. *Gmel. Sib.* 4. *p.* 204. *t.* 83. *b.*

Desc. *Herba* pusilla, glabra. *Folia* elongato-petiolata, alte trifida, lobo medio ovali, sæpissime indiviso, lateralibus sæpius bifidis lobulo exteriore minore, nunc indivisis, rarissime trifidis. *Petioli* filiformes basi vaginantes. *Pedunculi* oppositifolii, petiolum subæquantes, sæpius pilis sparsis adpressis. *Calyx* tetraphyllus nunc triphyllus, (an unquam 5-phyllus?) foliolis concavis pilosiusculis. *Petala* 5, calyce manifeste longiora, *lamina* obovata, intus nitenti trinervi, *ungue* lineari, apice foveola angusta marginata. *Stamina* 15—18, petalis breviora, *filamentis* inæqualibus, *antheris* ovalibus. *Achenia* (30 circiter) in capitulum ovatum congesta, stigmate brevi mucronulata.

4. Ranunculus affinis, foliis radicalibus pedato-multifidis petiolatis; caulinis subsessilibus digitatis; lobis omnium linearibus, caule erecto 1-2-floro cum calycibus ovariisque pubescentibus, fructibus oblongo-cylindraceis, acheniis rostro recurvo.

Obs. R. auricomo proxima species.

5. Caltha arctica, caule repente, foliis reniformibus crenato-repandis obtusis, folliculis (12—16) imbricatis, stigmate persistente adnato apice recurvo, antheris linearibus viginti pluribus.

Obs. Affinitate C. radicanti accedit; figura foliorum et caule repente convenit cum C. natante, quæ facile distinguenda pistillis stamina longitudine et numero superantibus, in capitulum sphæricum dense congestis, stigmatibus rectis simplicibus subsessilibus, antheris ovalibus, floribus albis foliisque aliquoties minoribus, et facie diversissima.

PAPAVERACEÆ.

6. Papaver nudicaule, *Linn. sp. pl. ed.* 2. *p.* 725. *Flor. Dan.* 41. *Willden. sp. pl.* 2. *p.* 1145. *Pers. syn.* 2. *p.* 62. *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 193. *Hooker in Scoresby's Greenl. p.* 413.

Papaver nudicaule γ. radicatum, *De Cand. syst. nat.* 2. *p.* 70.

Papaver radicatum, *Rottb. in act. Hafn.* 10. *p.* 455. *t.* 8. *p.* 24. *Br. spitzb. pl. in Scoresby's arct. reg.* 1. *append. p.* 75.

CRUCIFERÆ.

7. Draba alpina, *Linn. sp. pl. ed.* 1. *p.* 642. *ed.* 2. *p.* 896. *Willden. sp. pl.* 3. *p.* 425. *Pers. syn.* 2. *p.* 190. *Wahlenb. lapp. p.* 173. *De Cand. syst. nat.* 2. *p.* 338.

α. siliculæ glabræ.

Draba alpina, *Herb. Linn.*

β. siliculæ pilosæ.

Draba alpina, *Br. spitzb. pl. in Scoresby's arct. reg.* 1. *append. p.* 75.

8. Draba pauciflora, scapis aphyllis pedicellisque pilosis, foliis lanceolatis integerrimis pilis furcatis simplicibusque, petalis (flavis) spathulatis calycem hirsutum vix superantibus, ovariis glabris.

Obs. Dubia species, alpinæ proxima, cujus exemplar unicum in Herb. D. Sabine vidi.

9. Draba lapponica, *De Cand. syst. nat.* 2. *p.* 344.

Draba androsacea, *Wahlenb. lapp. p.* 174. *t.* 11. *f.* 5. exclus. syn.

Desc. *Radix* fusiformis, fibris nonnullis longis simplicibus, multiceps. *Caules* breves, divisi, basi reliquiis petiolorum emarcidis albis squamati, partiales semunciales, dense foliati. *Folia* lanceolata v. oblongo-lanceolata acutiuscula, plana, integerrima, venis alte immersis anastomozantibus, marginibus ciliatis pilis patentibus simplicibus paucissimisque furcatis, paginis adultorum glabris, novellorum pube brevi ramosa substellata conspersis. *Scapi* unciales—sesquiunciales, sæpissime aphylli, nunc folio unico lanceolato-lineari instructi, glaberrimi, læves. *Corymbi* 5-6-flori pedicellis glaberrimis patentibus, inferioribus flore sæpe longioribus. *Calyx*: foliolis concavis, ovalibus, extus vel pilis nonnullis simplicibus conspersis vel sæpius glaberrimis. *Petala* alba, calyce duplo longiora, *ungue* brevi, *lamina* obovata venosa. *Stamina* tetradynama, calyce longiora, petalis breviora, *filamentis* edentulis, *antheris* uniformibus, subrotundis ochroleucis. *Ovarium* sessile ovatum glabrum. *Stylus* brevissimus. *Stigma* capitato-bilobum, stylo manifeste latius. *Siliculæ* racemoso-corymbosæ, lanceolato-ovatæ, glabræ, stigmate subsessili apiculatæ, pedicellis patentibus paulo longiores polyspermæ. *Semina* biseriata, immarginata.

10. Cochlearia fenestrata, siliculis ellipticis ovalibusve, valvis subaveniis, dissepimento elliptico-lanceolato axi sæpius fenestrato, foliis radicalibus cordatis integerrimis; caulinis spathulato-oblongis subdentatis.

Cochlearia fenestrata, *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 193. *De Cand. syst. nat.* 2. *p.* 367.

Desc. Species polymorpha. *Folia* radicalia reniformi-cordata, citò decidua; caulina sessilia, integra vel paucidentata. *Calyx* sæpe purpurascens. *Petala* alba, obovata, calyce longiora. *Antheræ* subrotundæ. *Stylus* brevis. *Stigma* capitatum. *Silicula* obtusa, stylo brevi cum stigmate apiculata. *Valvæ* ventricosæ, venis altè immersis. *Dissepimentum* nunc ellipticum, nunc oblongum v. angustato-oblongum, e lamellis duabus tenuissimis facile separandis; loculi polyspermi. *Funiculi umbilicales* basibus connexis ope membranæ angustæ dissepimento parallelæ. *Semina* contraria, h. e. cruribus embryonis invicem septoque parallelis, ovata, reticulata, immarginata.

Obs. In exemplari unico Siliculas passim triloculares trivalves dissepimento pariter fenestrato observavi.

PLATYPETALUM.

Char. Gen. *Silicula* ovalis, *valvis* convexiusculis. *Semina* biseriata. *Cotyledones* incumbentes. *Stylus* brevissimus. *Calyx* sub-patens. *Petalorum laminæ* dilatatæ.

Habitus *fere* Brayæ *quacum structura floris cotyledonibusque incumbentibus convenit; satis diversum pericarpii forma. Affine quoque* Subulariæ *esse videtur, quæ ob cotyledones angustas bicrures, in embryone tantum bicruri ab eadem tribu minime removenda. Notis fructificationis pluribus accèdit etiam* Stenopetalo *nob. quod calyce clauso, petalis subulatis! glandulis receptaculi et habitu diversissimum, nec revera affine.*

11. Platypetalum purpurascens, stigmate bilobo patenti, stylo manifesto, scapis nudis unifoliisque pubescentibus, siliculis glabriusculis.

Desc. *Radix* perennis, fusiformis sæpe multicaulis. *Caules* breves, indivisi, basi denudati, supra densè foliati. *Folia* lanceolata, obtusiuscula, integerrima, rarius dente uno alterove instructa, crassa, avenia, læte-viridia, apice pilis nonnullis albis acutis simplicibus rariusve furcatis plerumque obsita; *petioli* basi dilatati membranacei pallidi. *Scapi* terminales, sæpius aphylli, vix unciales, basi nunc glabrati. *Corymbus* 4-6-florus, ebracteatus. *Calyx* modice patens, sepalis ovatis concavis subæqualibus, extus fusco-purpureis, limbo angusto albo, apice sæpe pilosiusculis quandoque glaberrimis, tardius deciduis. *Petala* alba, purpureo dilute tincta, unguiculata, laminis dilatatis, latioribus quam longioribus, integris, obtusissimis, ungues lineares superantibus. *Glandulæ* receptaculi quatuor, per paria approximatæ, latera filamentorum breviorum stipantes. *Stamina* tetradynama, *filamentis* edentulis distinctis; *antheris* uniformibus subrotundis ochroleucis. *Ovarium* sessile, ovale, pubescens pilis acutis simplicibus numerosis albis. *Stylus* brevissimus, tamen manifestus. *Stigma:* lobis patentibus, obtusis, papulosis. *Siliculæ* corymbosæ, ovales, stylo brevissimo cum stigmate patenti apiculatæ, biloculares, polyspermæ, valvis modice concavis, dissepimento completo. *Semina* immarginata, fusca.

12. Platypetalum dubium, stigmate indiviso subsessili, siliculis scapisque pubescentibus.

Obs. Floribus ignotis dubiæ generis planta cujus exemplaria tria in Herb. D. Sabine exstant. Cotyledones certè incumbentes et lineares, basibus tamen crus radiculare embryonis vix occupantibus.

EUTREMA.

Siliqua (abbreviata) anceps, valvis carinatis, dissepimentò incompleto! *Cotyledones* incumbentes.

Herba *habitu omnino* Brayæ *et* Platypetali, *quibus maxime affine genus, distinguendum tamen facile siliqua ancipiti, dissepimento incompleto, et seminum funiculis.*

13. EUTREMA EDWARDSII—Tab. A.

Desc. *Herba* perennis, glabra, 2-3-uncialis. *Radix* fusiformis, crassa, biuncialis, striis transversis tenuibus sæpe subannulata, fibrillas numerosas exserens, multicaulis. *Caules* simplicissimi, erecti, paucifolii. *Folia* radicalia elongato-petiolata, ovato-lanceolata, integerrima rarissime paucidentata, crassiuscula, plana, uninervia, venis alte immersis crebre anastomo-

zantibus inconspicuis, glaberrima: *petiolis* folio 4-5-ies longioribus, linearibus membranaceis, albicantibus, adversus lucem trinerviis; *caulina* radicalibus conformia, inferiora brevi petiolata, superiora subsessilia. *Corymbi* 7-10-flori, densi, folio florali sessili sæpe subtensi, cæterum ebracteati. *Calyx* glaber, sepalis æqualibus, ovatis, obtusis, modice concavis, trinerviis, extra medium purpurascentibus, insertione parum inæqualibus. *Petala* alba, calyce sesquilongiora, *ungues* breves, *laminæ* obovatæ, (vel ex ovali obovatæ) obtusæ, integerrimæ, planæ, obsoletè uninerviæ, vix manifeste venosæ. *Glandulæ* receptaculi quatuor, per paria approximatæ, latera filamentorum breviorum stipantes, parvæ. *Stamina* tetradynama. *Filamenta* subulata, glabra, edentula, duo lateralia paulo breviora basi aversa (acie nec superficie plana ovarium spectanti.) *Antheræ* uniformes, ovato-subrotundæ, incumbentes, infra medium affixæ, loculis parallelo-contiguis, longitudinaliter dehiscentibus. *Pollen* flavum, sphæricum, simplex quantum observare potui per lentem centies augentem. *Ovarium* sessile, glabrum oblongo-ovatum, uniloculare, placentis duabus parietalibus polyspermis. *Stylus* brevissimis vix manifestus. *Stigma* capitatum, indivisum v. semibilobum, stylo vix amplius. *Siliquæ* (siliculosæ) racemosæ, erectæ, lineari-lanceolatæ, ancipites, glaberrimæ, vix trilineares, stigmate obtuso indiviso subsessili apiculatæ. *Valvæ* carinatæ, carina manifesta, venis immersis, cortice demum ad margines solubili, in disco arctius adherenti; *replum* cortice pariter separabili. *Dissepimentum*, præter basin apicemque ubi sæpius completum, plerumque margo perangustus ad utrumque latus cujus processus membranaceus angustior e quo funiculi umbilicales brevissimi obtusi crassi papillæformes orti. *Semina* immarginata, fusca, lævia. *Cotyledones* incumbentes, lineari-oblongæ, plano-convexiusculæ, basi attenuata brevi in crure radiculari sita.

Obs. This species is named in honour of Mr. Edwards, Surgeon of the Hecla, from whose extensive and well-preserved herbarium I have derived great assistance in drawing up the present list, and in which only perfect specimens with ripe siliquæ of Eutrema Edwardsii were found.

EXPLICATIO TABULÆ—A.

Eutrema Edwardsii.—1. Planta florida, et 17. fructifera; utraque magnitudine naturali. Sequentes magnitudine auctæ; 2. flos integer; 3. petalum; 4. flos petalis orbatus; 5. sepalum (foliolum calycis); 6. stamina et pistillum integumentis floralibus avulsis; 7. stamen longius; 8. stamen brevius; 9. pollen ad augmentum 200; 10. pistillum receptaculo insidens à facie visum; 11. idem duplo auctius; 12. ejusdem portio transverse secta; 13. idem valvis avulsis; 14. pistillum à latere visum; 15. idem valvis avulsis; 16. placentæ parietalis portio cum ovulis; 18. siliqua matura dehiscens à facie visa; 19. siliqua matura clausa à latere visa; 20. eadem valvis orbata; 21. eadem duplo auctius; 22. semen; 23. idem transverse sectum; 24. idem longitudinaliter sectum; 25. embryo.

PARRYA.

Char. Gen. *Siliqua* lato-linearis, *valvis* venosis. *Semina* biseriata, *testæ epidermide*

laxo, corrugato. *Cotyledones* accumbentes. *Stigmata* approximata basibus connatis in stylum (brevissimum) decurrentibus. *Filamenta* edentula.

Herbæ *perennes, glabræ, subacaules.* Folia *radicalia integerrima v. dentata, crassiuscula, opaca, venis immersis inconspicuis, petiolorum basibus dilatatis scariosis semivaginantibus.* Scapi *radicales, aphylli, ebracteati.* Flores *purpurei.* Calyx *subpatens.* Glandulæ hypogynæ 4, *filamenta longiora extus stipantes.*

Obs. Affinitate proximum genus Arabidi, diversum siliquarum figura, structura seminum et stigmatis, et denique habitu.

This Genus is named in honour of Captain Parry, the distinguished commander of the Expedition in which it was discovered, and whose herbarium contained very complete specimens of the species here described.

14. PARRYA ARCTICA—Tab. B.

Parrya, siliquis lineari-oblongis, antheris ovalibus, foliis (fere omnibus) integerrimis, pedunculis glaberrimis.

Desc. *Herba* humilis, perennis, glaberrima. *Radix* perpendicularis, crassa, sublignea, striis transversis tenuibus notata, sæpe multiceps. *Caules* brevissimi, dense foliati. *Folia* petiolata, lanceolata passimve spathulato-lanceolata, integerrima, nonnulla rarissime paucidentata, crassiuscula, opaca, immerse uninervia, venis altè immersis inconspicuis. *Petioli* dimidio superiore angusto lineari textura laminæ, inferiore dilatato semivaginanti scarioso albicanti. *Scapus* caulem abbreviatum terminans vel sæpe axillaris, aphyllus, ebracteatus, glaberrimus, florifer foliis sæpe duplo fructifer triplo—quadruplove longior. *Flores* corymbosi, pedunculis patentibus glaberrimis. *Calyx* glaber, modicè patens, deciduus: *sepala* ovalia, obtusa, concava, insertione parum inæqualia, immerse nervosa, nervis passim oblique connexis. *Petala* quatuor, æqualia, unguiculata, purpurea, rarius alba, calyce duplo longiora; *ungues* lineares; *laminæ* obovatæ, uninerviæ, venosæ venis apice dichotomis. *Stamina* 6, tetradynama. *Filamenta* edentula; 4 *longiora* latiora, altero latere extra medium paulo angustiora. *Antheræ* uniformes, infra medium affixæ, oblongo-ovales, ochroleucæ, basi cordata lobulis approximato-parallelis, connectivo perangusto. *Pollen* sphæricum, simplex (nec compositum quantum observare licuit per lentem 114-ies augentem.) *Glandulæ hypogynæ* quatuor, filamenta longiora extus stipantes. *Ovarium* sessile, glabrum, biloculare, polyspermum, ovulis numerosis. *Stylus* brevissimus. *Stigma* bipartitum, lobis placentis oppositis, obtusis, mutuo sæpius appressis, basibus confluentibus et quasi in latera styli decurrentibus. *Siliquæ* racemosæ, erectæ, nonnullæ quandoque pendulæ, pedicellis patentibus, intra cicatrices floris sessiles, lineari-oblongæ, passim siliculiformes, utrinque obtusæ. *Valvæ* planæ, uninerviæ, venosæ. *Dissepimentum* completum (rarissime fenestratum foramine magno v. parvo) arachnoideo-areolatum, axi quandoque opaciori paulo incrassato, lineisve duabus opacioribus axi approximatis. *Funiculi umbilicales* marginati, latiusculi, dimidio inferiori septo cohærentes. *Semina* 6-8 in singulo loculo, sæpiusque biseriata, epidermis testæ laxus, tenuissimus, albus, ultra ipsam testam in limbum latiusculum extensus, supra nucleum rugosus, testa ipsa, dempto epidermide, crasso-membranacea è duabus lamellis

invicem arctè cohærentibus conflata, membrana interna nulla nisi lamella interior testæ. *Embryo* curvatus, plumbeus. *Cotyledones* ovali-obovatæ, planiusculæ, accumbentes, aveniæ. *Radicula* teres, acuta.

Obs. Parryæ altera species est *P. Macrocarpa*, siliquis lanceolato-linearibus utrinque acutis inter semina sæpe constrictis, antheris linearibus, pedicellis floriferis hispidiusculis, foliis incisis dentatisque; quæ Cardamine nudicaulis, *Linn. sp. pl. ed.* 1, *p.* 654, fide speciminis unici fructiferi absque floribus illius herbarii. Cardamine, &c. *Gmel. sib.* 3. *p.* 273. *n.* 43. Cardamine articulata, *Pursh. am.* 2. *p.* 439. *De Cand. syst.* 2. *p.* 268. Arabis nudicaulis, *De Cand. syst.* 2. *p.* 240.

EXPLICATIO TABULÆ—B.

Parrya arctica.—1, 2, et 3. Plantæ floridæ et 21 planta fructifera; omnes magnitudine naturali. Sequentes magnitudine auctæ, 4. flos integer, 5. petalum, 6. flos petalis orbatus, 7. sepalum, 8. genitalia integumentis floralibus avulsis, 9. stamen longius antice, 10. idem postice visum, 11. stamen brevius, 12. pollen 200-ies auctum, 13. pistillum receptaculo insidens à facie visum, 14. idem duplo auctius, 15. idem valvis avulsis, 16. ejusdem (14) sectio transversalis, 17. pistillum à latere visum, 18. idem valvis avulsis ovula exhibens loculi alterius, 19. ejusdem (17) sectio transversa, 20. placentæ portio cum ovulis et funiculis suis, 22. siliqua matura dehiscens à facie visa, 23. siliqua matura clausa à latere visa, 24. eadem valvis orbata exhibens dissepimentum et semina loculi alterius, 25. placentæ portio cum seminibus duobus epidermide laxo rugoso arilliformi tectis, 26. seminis maturi integumentis ambobus instructi sectio transversa, 27. semen epidermide arilliformi orbatum, 28. ejusdem sectio longitudinalis, 29. embryo situ naturali, 30. idem cotyledonibus arte expansis, 31. semen abortivum.

15. Cardamine bellidifolia. *Linn. sp. pl. ed.* 2. *p.* 913. *Flor. Dan. t.* 20. *Wahlenb. lapp. p.* 179. *De Cand. syst. nat.* 2. *p.* 249. *Br. in Scoresby's arct. reg.* 1. *append. p.* 75.

Cardamine foliis simplicibus ovatis petiolis longissimis. *Linn. lapp. p.* 214. *n.* 260. (cum figura respectu habitus bona, quoad flores pessima, *tab.* 9, *f.* 2.) exclus. syn. Clusii et Gerardi, ad Arabidem bellidifoliam pertinentibus, monente D. Smith, in Flor. lapp. ed. 2.

CARYOPHYLLEÆ.

16. Lychnis apetala. *Linn. sp. pl. ed.* 2. *p.* 626. *Flor. Dan.* 806. *Willden, sp. pl.* 2. *p.* 810. *Pers. syn.* 1. *p.* 520. *Wahlenb. lapp. p.* 135. *t.* 7. *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 192. *Richardson in Franklin's journ. p.* 738.

Cucubalus caule simplicissimo unifloro corolla inclusa. *Linn. lapp.* 143. *n.* 181. *t.* 12. *f.* 1.

17. Cerastium alpinum. *Linn. sp. pl. ed.* 2. *p.* 628. *Willden. sp. pl.* 2. *p.* 814.

Pers. syn. 1. *p.* 521. *Smith brit.* 2. *p.* 500. *Engl. bot.* 472. *Hooker scot. p.* 144 *et* 280 *Soland. in Phipps' voy. p.* 202. *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 192. *Spitz. pl. in Scoresby's arct. reg.* 1. *append. p.* 75. *Hooker in Scoresby greenl. p.* 413. Cerastium latifolium. *Lightf. scot.* 1. *p.* 242. *t.* 10.

Obs. Species polymorpha cujus tres varietates sequentes in Insula Melville observatæ.

α. folia oblonga rariusve brevè ovalia, pedunculi dichotomi rarius uniflori, pili pedunculorum plerique glanduloso-capitati, capsulæ oblongæ calyce duplo fere longiores.

β. folia late ovata, pedunculi dichotomi pilis plerisque acutis, calycis foliola interiora glabriuscula.

γ. hirsuta, folia elliptica v. lanceolata, pedunculi divisi et solitarii, pilis plerisque acutis, capsulæ calyce paulo longiores.

18. Stellaria Edwardsii, foliis ovato-lanceolatis integerrimis enerviis nitidis, pedunculis terminalibus unifloris trifidisve, petalis bipartitis calyce immerse trinervi longioribus, antheris purpureis.

Obs. Duplex varietas.

In *α.* (cujus exemplaria plurima in Melville Island, et aliqua anno 1792, ad Chesterfield Inlet lecta vidi) folia ovata acuta v. ovato-lanceolata, pedunculi solitarii v. trifidi, lateralibus sæpissime unifloris altero nunc abortiente, dum solitarii ebracteati, dum divisi bibracteati, bracteis semifoliaceis margine membranaceo ciliato, pedicellis lateralibus pariter bibracteatis. Caulis et folia sæpius glaberrima, caulis nunc villosiusculus et folia basi ciliata villis tenuibus laxis.

β. (cujus exemplaria duo, quorum alterum multicaule,) folia ovato-lanceolata apice subattenuata nitidissima, pedunculi sæpius uniflori. Caules et folia glaberrima.

In utraque fructus desideratur, qui exstat in S. Edwardsii, *Richardson in Franklin's journ. p.* 738. In hac vero, quæ forsan distincta species, antheræ ochroleucæ minimæ et polline destitutæ, styli elongati et stigmata manifestiora, caules et folia glaberrima, capsula erecta calyce fere duplo longior semisexvalvis, semina reniformia lævia fusca.

De Stellaria nitida *Hooker in Scoresby greenl. p.* 411. cui secundum auctorem folia lanceolata siccitate subtrinervia, flores subpaniculati et antheræ flavæ, incertus sum.

19. Arenaria quadrivalvis, foliis subulatis acutis glaberrimis trinerviis, pedunculis unifloris elongatis pubescentibus, calycibus acutissimis trinerviis petala elliptica superantibus capsula quadrivalvi (nunc 3—5-valvi) sæpius brevioribus.

Alsine rubella, *Wahlenb. lapp.* 128, *t.* 6, forsan haud distincta; sed secundum auctorem capsula 3-valvis petala rubella et in icone subspathulata basi valde attenuata.

Desc. *Herba* 1-2-uncialis. *Radix* perennis, descendens. *Caulis* à basi ramosissimus cæspitem densum efformans, infra vaginis petiolaribus emarcidis nervisque foliorum denudatis obsitus, supra dense foliatus. *Folia* opposita basi connata, subulata, acuta, mutica, super concaviuscula, subter convexa, trinervia, marginibus nudis. *Pedunculi* terminales solitarii,

uniflori, prope basin bibracteati, *bracteis* lanceolatis, semifoliaceis margine membranaceo, pubescentes pilis brevibus, porrectis, glanduloso-capitatis, numerosis. *Calyx* 5-partitus, *sepalis* lanceolatis, acutissimis, vix acuminatis, concaviusculis, trinerviis, viridibus nunc fusco-purpureo tinctis margine albo membranaceo, extus pilis nonnullis brevissimis minute capitatis conspersis, persistens. *Petala* 5, integerrima, alba, calyce paulo breviora, ovali-oblonga v. elliptica, integerrima, basi parum attenuata, persistentia. *Stamina* decem, margini disci brevissimi subcarnosi, dubiæ originis, perigyni potius quam hypogyni, inserta. *Filamenta* subulato-filiformia, glabra. *Antheræ* ochroleucæ, subrotundæ, loculis approximatis, appositis, longitudinaliter dehiscentibus. *Ovarium* sessile, ovatum, glabrum, uniloculare, polyspermum. *Stigmata* quatuor (passim 3 et 5) filiformia, alba intus longitudinaliter hispidula. *Capsula* calyce persistenti appresso sæpius paulo longior, nunc eundem subæquans, quadrivalvis, passim 3 et 5-valvis, valvis vix omnino ad basin distinctis. *Receptaculum* seminum centrale, longitudine fere capsulæ, cum apice cavitatis primo connexum mox solutum. *Semina* reniformia, lævia, fusca, funiculis umbilicalibus cum receptaculo communi persistentibus.

20. ARENARIA ROSSII, glaberrima, foliis triquetro subulatis obtusiusculis muticis enerviis florem vix æquantibus, pedunculis unifloris elongatis, petalis oblongis calyces obsolete trinervios paulo superantibus.

DESC. *Herba* pusilla, glaberrima. *Caules* ramosissimi, cæspitosi, densè foliati. *Folia* opposita basibus connatis, carinata. *Pedunculi* foliis aliquoties longiores. *Calyx* 5-partitus, purpurascens; *sepala* æqualia, ovata, acutiuscula, modice concava, obsoletissime trinervia, marginibus membranaceis nudis. *Petala* 5, angusto-oblonga, obtusa, integra, alba, calyce paululum longiora. *Stamina* 10. *Filamenta* disco scutelliformi subcarnoso potius perigyno quam hypogyno inserta, è latiore basi filiformia, glabra, alba. *Antheræ* ovales, ochroleucæ. *Ovarium* ovatum, sessile, uniloculare, glabrum, polyspermum. *Stigmata* 3, filiformia.

Obs. Arenaria Rossii, *Richardson in Franklin's journ. p.* 738, paulo diversa est statura majore, foliis calycem longitudine superantibus, minus crassis nec adeo obtusis, internodio sæpius brevioribus, calycis foliolis duobus exterioribus parum brevioribus, nervis lateralibus omnium manifestioribus, petalis longitudine calycis. In hac capsula trivalvis calycem æquat.

Alsine stricta *Wahlenb. lapp. p.* 127. ab Arenaria Rossii *Richards. l. c.* differt statura duplo majore, foliis longioribus acutis aliisque notis.

SAXIFRAGEÆ.

SAXIFRAGA. *Linn.*

CHAR. GEN. *Stamina* 10, *antheris* didymis. *Petala* indivisa. *Styli* 2. *Capsula* (v. adhærens v. libera,) bilocularis, birostris v. biloba, foramine inter rostra ipsisve lobis intus longitudinaliter dehiscens, polysperma. *Semina:* testa nucleo subconformi.

Obs. Characterem in paucis mutatum structuram antherarum et seminum respicientem

proposui ob genus maxime affine (LEPTARRHENA *nob.* quæ Saxifraga amplexifolia, *Sternb. saxifr. suppl. p. 2. t. 2.* Saxifraga pyrolifolia, *Don in Linn. soc. trans.* 13. *p.* 389.) cui antheræ uniloculares bivalves septo incompleto parallelo, et semina (capsulæ altè bilobæ) scobiformia, testa utrinque ultra nucleum ovalem elongata, subulata!

21. SAXIFRAGA OPPOSITIFOLIA. *Linn. sp. pl. ed. 2. p.* 575. *Willden. sp. pl. 2. p.* 648. *α. Smith Brit. 2. p.* 450. *Engl. bot. t.* 19. *Wahlenb. lapp. p.* 113. *Carpat. p.* 118. *Soland. in Phipps' voy. p.* 202. *Br. in Ross' voy. ed. 2. vol. 2. p.* 192. *Spitz. pl. in Scoresby's arct. reg.* 1. *append. p.* 75. *Don. in Linn. soc. trans. v.* 13. *p.* 400.

22. SAXIFRAGA HIRCULUS. *Linn. sp. pl. ed. 2. p.* 576.

β. Petala obovata, ungue nudo: caulis uniflorus.

Saxifraga propinqua. *Br. in Ross' voy. ed. 2. vol. 2. p.* 192.

Hirculus propinquus. *Haw. Saxif. enum. p.* 41.

Obs. Petala quandoque, sæpius forsan, appendiculata et calyces ciliati; ideoque à S. Hirculo vix differt nisi petalis plerumque obovatis ungue nudo nec ciliato, caule fere semper unifloro et statura minore. Hæc varietas solum in Insula Melville observata fuit.

23. SAXIFRAGA FLAGELLARIS, flagellis filiformibus, caule erecto simplici 1-3-floro calycibusque glanduloso-pubescentibus, foliis radicalibus caulinisque inferioribus obovato-spathulatis ciliatis; superioribus villosiusculis, petalis persistentibus capsula semisupera longioribus.

Saxifraga flagellaris. *Sternb. saxifr. p.* 25 *et* 58. *t.* 6. *Steven in Mem. soc. nat. cur. mosq.* 4. *p.* 79. *Marschall flor. taur-caucas.* 3. *p.* 291. *Br. in Ross' voy. ed. 2. vol. 2. p.* 192. *Don. in Linn. soc. trans.* 13. *p.* 373.

Saxifraga setigera. *Pursh. am.* 1. *p.* 312.

DESC. *Radix* perpendicularis, fibras longas subsimplices dimittens, elevans *Caulem* unicum, simplicissimum, 2-4-uncialem, foliatum, pubescentem, pilis brevibus strictis purpureo-capitatis, sursum crebrioribus, basi demum glabratum. *Folia* indivisa, radicalia et caulina inferiora confertissima, patentia, superiora sparsa: *radicalia* cuneato-obovata et subspathulata, acutiuscula, plana, basi angustata in petiolum brevem latiusculum, immerse nervosa, nervis lateralibus dichotomis ramis interioribus in extimum margini folii approximatum desinentibus, apicibus mox infra apicem folii confluentibus, ibique callo subovali in pagina superiore parum elevato aucta, marginibus longitudinaliter ciliatis, pilis subulatis strictis rigidulis brevibus albicantibus, capitulo glanduloso purpurascente demum deciduo apiculatis, terminali dilatato pariter apiculato; *caulina inferiora* conferta, radicalibus subsimilia figura, ciliis marginalibus et paginis glabris; *superiora* sparsa, paulo minora, oblonga, acutiuscula, basi vix attenuata, subsessilia utraque pagina marginibusque pilis brevibus glanduloso-capitatis iisque calycis et caulis similibus. *Flagella* ex alis foliorum radicalium et inferiorum caulis solitaria, filiformia, 3—5-uncias longa, angulata v. anguste marginata, arcuato-deflexa, pilis glandulosis rarissimis conspersa, aphylla, apice sobo-

lifera: *gemmula* parva, turbinata, è foliolis nanis numerosis conniventibus, arcte imbricatis, obovatis acutiusculis, immersè nervosis, glabris, marginibus ciliis nonnullis brevibus ornatis; et in ipsa basi radiculis 2—3 simplicibus singulis è vagina (coleorhiza) membranacea, primo clausa dein lacerata erumpentibus. *Flores* 1—3, pedunculati, erecti, medius præcocior, ebracteatus, laterales bractea unica nunc duabus alternis lato-linearibus sessilibus foliaceis. *Calyx* basi adhærens, dimidio libero 5-partito, laciniis ovatis, obtusiusculis extus pube glandulosa foliorum instar conspersis, intus glaberrimis, nervis alte immersis. *Petala* 5, aurea calyce duplo longiora, *ungue* brevissimo, *lamina* obovata, 5—7-nervi, sæpissime inappendiculata, quandoque squamula obsoleta extra nervos extimos. *Stamina* decem, calyce parum longiora, petalis breviora. *Filamenta* subulata, subæqualia. *Antheræ* uniformes, cordatæ, flavæ, loculis contiguis medio (margine) longitudinaliter dehiscentibus. *Pollen* flavum. *Ovarium* basi brevè turbinata adherenti, dimidio libero bifido; biloculare, polyspermum. *Styli* vix ulli. *Stigmata* suborbiculata, depressa, papulosa, nec omnino glabra. *Capsula* plusquam semisupera, bilocularis, biloba, calycis laciniis erectis cincta, et petalis persistentibus (vix emarcidis) longioribus occultata, lobis brevibus crassiusculis longitudinaliter, fere ad stigmata persistentia usque, dehiscentibus. *Semina* in cavitate biloculari indivisa soluni, lobis vacuis, minuta, lævia, cylindraceo-oblonga, castanea: *testa* membranacea. *Albumen* semini conforme, album, farinoso-carnosum. *Embryo* rectus, axilis, teres, longitudine fere dimidii albuminis. *Cotyledones* radicula breviores.

24. Saxifraga tricuspidata. *Rottb. in act. Hafn.* 10. *p.* 446, *t.* 6. *n.* 21. *Gunn. norv.* 2. *p.* 135. *n.* 1046. *Flor. Dan.* 976. *Willden. sp. pl.* 2. *p.* 657. *Pers. syn.* 1. *p.* 490. *Sternb. saxifr. p.* 54. *Pursh. am.* 1. *p.* 312. *Giesecke Greenl. in Edin. Encyclop. Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 192. *Don in Linn. soc. trans.* 13. *p.* 440. *Richardson in Franklin's jour. p.* 737.

Obs. In planta Insulæ Melville, quæ statura humilior, folia radicalia passim et caulina omnia indivisa.

25. Saxifraga hyperborea, foliis glaberrimis: radicalibus palmatis elongato-petiolatis, caule lanato subbifloro, bracteis oblongo-linearibus sessilibus, petalis uninerviis, capsulis semiinferis.

Obs. Proxime accedit S. rivulari *Linn.* et ejusdem forsan varietas. S. rivularis autem differt bracteis ambabus sæpius, inferioribus semper subpetiolatis obovatis, caule inferne minus lanato. Ab utraque distincta est S. petiolaris (*Br. in Ross' voy. ed.* 2. *v.* 2. *p.* 192.) foliis omnibus glandulis subsessilibus conspersis: radicalibus scapum æquantibus v. superantibus, folio florali lobato, petalis trinerviis.

26. Saxifraga uniflora, foliis radicalibus aggregatis trifidis; caulinis linearibus indivisis distantibus, caule unifloro ovarioque infero viscido: pube glandulosa brevissima, calycibus obtusis, petalis obovato-oblongis.

Saxifraga cæspitosa, *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 192.

Saxifraga venosa, *Haworth enum. saxifr. p.* 28?
Obs. Nimis affinis S. cæspitosæ, *Linn.*; vix distincta species.

27. Saxifraga nivalis, *Linn. sp. pl. ed.* 2. *p.* 573. *Willden. sp. pl.* 2. *p.* 645. *Pers syn.* 1. *p.* 488. *Smith brit.* 2. *p.* 449. *Engl. bot.* 440. *Wahlenb. lapp. p.* 113.
α. corymbus multiflorus thyrsoideus, pedunculis inferioribus trifloris.
β. corymbus simplicissimus pauciflorus. *Linn. lapp. t.* 2. *f.* 5.
Obs. varietas β. dimidio minor, pube caulis et pedicellorum parciore breviore stricta (nec, ut in α. laxa decumbente lanam brevem referente); in utraque petala persistentia. Saxifraga longiscapa, *Don. in Linn. soc. transact.* 13. *p.* 388. à varietate β. vix differt nisi scapo longiore.

28. Saxifraga foliolosa, foliis radicalibus cuneatis subdentatis, scapis divisis: ramis apice unifloris infra tectis foliolis nanis fasciculatis, calycibus inferis obovatis, petalorum laminis cordato-lanceolatis.
Saxifragæ stellaris var. *Linn.* Saxifraga caule nudo simplici foliis dentatis coma foliolosa *Linn. lapp. p.* 137. γ. *tab.* 2. *f.* 3.
Saxifraga stellaris β. comosa. *Willden. sp. pl.* 2. *p.* 644.
Obs. Distincta videtur à S. stellari, *Linn.* (quæ in Insula Melville haud observata fuit) scapo densè foliolato floribus paucissimis (v. nullis) calycibus obovatis, et præsertim petalorum æqualium laminis basi cordatis.

29. Saxifraga cernua, *Linn. sp. pl. ed.* 2. *p.* 577. *flor. lapp. n.* 172. *t.* 2. *f.* 4. *Willden. sp. pl.* 2. *p.* 652. *Pers. syn.* 1. *p.* 489. *Smith brit.* 2. *p.* 453. *Engl. bot. t.* 664. *Flor. Dan.* 22. *Wahlenb. lapp. p.* 116. *Hooker. scot. p.* 130. *Gmel. sib.* 4. *p.* 162. *n.* 74. *Sternb. saxifr. p.* 18. *t.* 12. *f.* 2. *Soland. in Phipps' voy. p.* 202. *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 192. *Spitz. pl. in Scoresby's arct. reg.* 1. *app. p.* 75. *Don in Linn. soc. trans.* 13. *p.* 364. *Richardson in Franklin's journ. p.* 737.
Obs. Variat rarius caule ramoso, ramis unifloris, quæ S. cernua, *Gunn. nor. n.* 528. *t.* 8. *f.* 2. et Saxifraga bulbifera? *Flor. Dan.* 390. *Zoega pl. island. in Olafs. reise* 2. p. 236.

30. Chrysosplenium alternifolium, *Linn. sp. pl. ed.* 2. *p.* 569. *Willden. sp. pl.* 2. *p.* 637. *Pers. syn.* 1. *p.* 487. *Smith brit.* 2. *p.* 453. *Engl. bot.* 54. *Hooker scot. p.* 128. *Wahlenb. lapp. p.* 111. *Carpat. p.* 116. *Marschall caucas.* 1. *p.* 313. *Richardson in Franklin's journ. p.* 737.

ROSACEÆ.

31. Dryas integrifolia, foliis integerrimis passimque infra medium inciso-crenatis: venis subtus inconspicuis; novellis semisiccatisque marginibus revolutis.
Dryas integrifolia, *Vahl in act. soc. hist. nat. hafn. vol.* 4. *par.* 2. *p.* 171. *Flor. Dan.*

1216. *Pers. syn. 2. p. 57. Br. in Ross' voy. ed. 2. vol. 2, p.* 193. *Richardson in Franklin's journ. p.* 740.

Dryas tenella, *Banks' mss.* (fid. specim. à Terra Nova, ubi primum an. 1766, à D. Banks detecta) *Pursh. am.* 1. *p.* 350.

Obs. Nimis affinis D. octopetalæ, quæ differt statura sæpissime majore, foliis semper longitudinaliter inciso-crenatis, subtus costatis venis prominulis.

SIEVERSIA.

Sieversia, *Willden. in Mag. der gesell. naturf. fr. zu Berlin 5. jahrg.* (1811.) *p.* 397. charactere emendato.

Char. Gen. *Calyx* decemfidus, laciniis alternis accessoriis. *Petala* 5. *Stamina* indefinite numerosa. *Ovaria* indefinita, ovulo adscendente. *Styli* terminales, continui. *Achenium* stylo toto persistenti aristatum. *Embryo* erectus.

Habitus *fere, nec omnino*, Gei, *quod differt* Stylis *geniculatis articulo superiore dissimili sæpiusque deciduo.*

Ab utroque genere distinguendum Geum potentilloides (Coluria *nob.*) ob Stylum basi cum apice ovarii articulatum deciduum, et Achenia (glandulosa) tubo elongato turbinato calycis inclusa.

Sieversiæ species sunt Geum montanum et reptans *Linn.* radiatum *Michaux*, Peckii et triflorum *Pursh*, glaciale *Adams*, humilis, congesta et dilatata *nob.* et Geum anemonoides *Willden. sp. pl.* quæ Dryas pentapetala *Linn.*, cui certè styli terminales nec laterales ut perhibet Willdenow in charactere generis Sieversiæ, pro hac specie solum ab illo instituti.

32. Sieversii Rossii, aristis nudis, foliis radicalibus interruptè pinnatis glabris: pinnis trilobis; accessoriis imisque nanis indivisis, caule unifloro subdiphyllo, petalorum venis omnibus distinctis.

Desc. *Herba* perennis, 2—6-uncialis, glabra. *Caudex* demersus, radiciformis, squamis scariosis fuscis (petiolorum reliquiis) tectus, infra medietatem fibras descendentes simplices fibrillosas crassiusculas proferens. *Folia radicalia* numerosa (4—7,) glabriuscula, petiolata, interrupte pinnata, exstipulata, pinnis circumscriptione ovatis cuneatisve, trifidis vel bifidis (lobo superiore lateralium deficiente) basi inæquali, inferne in rachin decurrenti, superioribus approximatis, nanis indivisis interpositis inter medias; imis ipsis minimis integerrimis. *Petioli* infra medium dilatati ibique scariosi, pallide fusci. *Scapi* ex alis foliorum radicalium vel squamarum superiorum caudicis demersi, infra nudi, extra medium foliis sæpius duobus, alternis, sessilibus, pinnatifidis, exstipulatis, in statu florescentiæ (cum scapi folia radicalia vix æquant) invicem apicique scapi approximatis, in fructiferis folia radicalia aliquoties superantibus, ab invicem et ab apice sæpe distantibus; teretes, pubescentes, pube descendendo sensim parciore. *Flos* solitarius, erectus, ebracteatus. *Calyx* extus pubescens, decemfidus, tubo brevi turbinato, laciniis 5 majoribus interioribus, late semiovatis, acutiusculis, quinque alternis dimidio minoribus, ovalibus, petalis oppositis. *Petala* 5, obovata, integerrima, venosa, aurea,

sinubus laciniarum majorum calycis inserta iisque sesquilongiora. *Stamina* fauci calycis inserta, indefinita, 30 plura. *Filamenta* subulata, glabra. *Antheræ* ovatæ, flavæ, basi semibifidæ, loculis parallelo-approximatis, longitudinaliter dehiscentibus. *Pollen* globosum, simplex.. *Ovaria* indefinite numerosa, receptaculo subcylindraceo imbricato inserta, breve pedicellata, ab apice pedicellorum solubilia, hirsuta, pilis acutis strictis, monosperma, ovulo adscendente. *Styli* terminales, filiformes, subulati, glabri, stricti. *Stigmata* dilatata, obliqua, retusa, papulosa.

Obs. This species is named in honour of Lieutenant James Ross, in whose well-preserved herbarium several plants were found not contained in the other collections.

EXPLICATIO TAB. C.

Sieversia Rossii. 1, 2. Planta florida, magnitudine naturali. Sequentes auctæ. 3 et 4, flos antice et postice visus. 5. flos petalis et staminibus orbatus. 6. petalum. 7. portio calycis cum staminibus respondentibus ejusdem basi insertis. 8, 9. stamen antice et postice visum. 10. pollen 200-ies auctum. 11. pistillum. 12. id. longitudinaliter sectum. 13. pistilla receptaculo insidentia. 14. receptaculum commune pistillorum cum pedicellis. 15. achenium fere maturum. 16. id. longitudinaliter sectum. 17. id. transverse sectum. 18. semen. 19. embryo.

33. Potentilla pulchella, foliis pinnatis bijugis super villosis subter sericeis, foliolis pinnatifidis pari inferiori minore: lobis omnium lanceolato-linearibus, caulibus paucifloris (uniflorisve), stylo basi glanduloso-dilatata.

Potentilla pulchella, *Br. in Ross' voy. ed. 2. vol. 2. p.* 193.

Potentilla sericea? *Greville in Mem. Wern. soc. 3. p.* 430. fide speciminis in herb. grœnlandico D. Jameson.

Obs. P. sericea *Linn.* facile distinguitur foliis 3—5-jugis, et lana elongata receptaculi, quod in P. pulchella pube brevi ovaria vix æquante instructum. Nostra planta affinitate propius accedit P. niveæ, haud obstante hujus divisione ternata foliorum, quæ nunc, rarissime quamvis, addito foliolorum pari nano similiter pinnata evadunt.

34. Potentilla nivea. *Linn. sp. pl. ed. 2. p.* 715. *Rottb. in act. Hafn.* 10. *p.* 451, *t.* 7. *n.* 22. *optima fig. var.* α. *Willden. sp. pl.* 2. *p.* 1109. *Pers. syn.* 2. *p.* 56. *Wahlenb. lapp. p.* 146. *Nestler potent. p.* 73. *Lehman potent. p.* 184.

α. folia super villosiuscula viridia, subter niveo-tomentosa.

β. folia utrinque villosiuscula, paginis concoloribus.

Potentilla nivea β. *Wahlenb. lapp. p.* 147.

Potentilla Groenlandica, *Br. in Ross' voy. ed. 2. vol. 2. p.* 193.

Potentilla frigida? *Greville in Mem. Wern. soc.* 3. *p.* 430. see exempl. in herbario D. Jameson.

Potentilla verna, *Hooker in Scoresby's greenl. p.* 413.

Obs. Polymorpha species, cui nimis affinis est Potentilla Vahliana *Lehm. potent. p.* 172, quæ P. hirsuta *Flor. Dan. t.* 1390, secundum exemplar Groenlandium à D. Giesecke; et P. Jamesoniana *Greville in Mem. Wern. soc.* 3. *p.* 417. *t.* 20. fide exempl. à D. Jameson; nec diversa videtur P. macrantha *Ledeb.* secundum specimen ex Oonalaska à D. Fischer.

PAPILIONACEÆ.

35. Astragalus alpinus, *Linn. sp. pl. ed.* 2. *p.* 1070. *Flor. lapp. p.* 218. *n.* 267. *t.* 9. *f.* 1. *Flor. Dan.* 51. *Gmel. sib.* 4. *p.* 45. *n.* 59. *Pall. astrag. p.* 41. *t.* 32. *Willden. sp. pl.* 3. *p.* 1297. *Wahlenb. lapp. p.* 190. *t.* 12. *f.* 5. *(fruct.) Helv.* 131. *Carpat.* 223. *Pursh. am.* 2. *p.* 472.

Phaca astragalina, *De Cand. Astrag. p.* 52. *Pers. syn.* 2. *p.* 331. *Richardson in Franklin's journ. p.* 745.

36. Oxytropis arctica, subacaulis sericea, stipulis petiolaribus, foliolis oppositis alternisque ovali-oblongis, capitulo subumbellato paucifloro, leguminibus erectis oblongis acuminatis calycibusque nigro-pubescentibus.

Desc. *Radix* lignea, perpendicularis, longissima, crassa, subramosa, multiceps. *Caules* brevissimi, dense foliati et basi stipulis villosissimis persistentibus imbricatis tecti. *Folia* conferta, foliola 11—17, novella utrinque villosa sericea, adulta super glabriuscula, ovalia v. oblonga, sæpius obtusa raro acutiuscula. Stipulæ membranaceæ, infra petiolo adnatæ, apicibus solutis semilanceolatis, acutissimis. *Scapi* foliis longiores, teretes, villosi, villis albo-cinereis, nunc cinereis nigrisque intermixtis, nunc omnino nigris. *Flores* majusculi. *Capitulum* 3—5-florum, pedicellis brevissimis. *Bracteæ* lineares, acutæ, patulæ, calyce breviores, extus pube nigricante. *Calyx* villis nigris subadpressis copiosis tectus, dentibus erectis brevibus. *Corolla* cæruleo-violacea, calyce duplo longior (9—10-lin. æquans.) *Vexillum* obcordatum lateribus reflexis, lamina basi attenuata absque callis auriculisve. *Alæ* vexillo breviores, obtusissimæ, apice dilatato oblique retuso, prope basin lateris auriculati intus plica saliente, hinc auriculo mediocri. *Carina* alis paulo brevior, obtusa cum mucrone brevi acutiusculo. *Stamina* inclusa 1—9-fid. antheris uniformibus. *Legumen* erectum, calyce hinc longitudinaliter fisso infra auctum, oblongum, acuminatum, sutura superiore intruso intusque septifero, septo incompleto bipartibili, funiculis adnatis parallelo-striato. *Semina* reniformia, in singulo loculo 7—9, funiculis apice solutis è margine dissepimento quasi ortis.

Obs. Species proxima O. uralensi quæ diversa floribus leguminibusque spicatis, foliolis numerosioribus et semper acutissimis, calycibus leguminibusque cinereis pilis nonnullis atris pluribus albis.

COMPOSITÆ.

37. Leontodon palustre, *Smith brit.* 2. *p.* 823. *Engl. bot.* 553. *Pers. syn.* 2. *p.* 367. *Hooker scot. p.* 227. *Flor. Dan.* 1708. *Richardson in Franklin's journ. p.* 746.

Leontodon lividus, *Waldst. et Kitaib. pl. rar. hung.* 2. *p.* 120. *t.* 115. *Willden. sp. pl.* 3. *p.* 1545. *Marsch. taur-caucas.* 2. *p.* 246. *vol.* 3. *p.* 531.

Leontodon taraxacum? *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 194.

Leontodon taraxacum *β. Wahlenb. carpat.* 238. *Upsal. p.* 257.

Obs. Nimis affinis L. Taraxaco L. videtur.

38. Arnica montana *β. Linn. sp. pl. ed.* 2. *p.* 1245. *Willden. sp. pl.* 3. *p.* 2106. *Pers. syn.* 2. *p.* 453. *Wahlenb. lapp.* 210.

Arnica angustifolia, *Vahl in Flor. Dan.* 1524. fide exempl. Groenland. à D. Giesecke.

Doronicum foliis lanceolatis, *Linn. lapp.* 241. *n.* 305.

Obs. Planta nostra Groenlandicâ sæpius humilior (2—4-uncialis) cum exemplaribus nonnullis à D. Richardson prope littora maris arctici quadrans vix specie distinguenda ab Arnica montana *α.* cujus insuper varietates sunt Arnica plantaginea et fulgens, *Pursh. am.*

39. Cineraria congesta, capitulo lanato, foliis lineari-lingulatis undulatis, caule simplicissimo.

Desc. *Herba* 3—4-uncialis lanata. *Radix* fasciculato-fibrosa. *Folia* radicalia et ima caulina numerosa indivisa, lingulata, obtusa, undulata, demum glabriuscula, viridia; caulina superiora 2—3, alterna, lana decumbente. *Caulis* erectus, simplicissimus, lana implexa tardius decidua tectus. *Anthodia* in capitulum terminale subsphæricum ebracteatum dense congesta, lana copiosa semi-involuta, radiata. *Involucrum* (calyx communis) simplici serie polyphyllum, lana decumbenti copiosa, è villis longis implexis articulatis, dense tectum. *Ligulæ* numerosæ, femineæ, lamina oblongo-lineari, integra, 2—3-nervi. *Flosculi* hermaphroditi perfecti. *Tubus* gracilis. *Limbus* infundibuliformis semiquinquifidus, decemnervis, laciniis semilanceolatis trinerviis nervis axilibus tenuioribus. *Antheræ* semi-exsertæ basibus muticis, appendicibus apicis linearibus acutis. *Ovaria* glabra, subcylindracea. *Stigmata* intus canaliculata apice subtruncata. *Pappus* sessilis, filiformis, albus, radiis numerosis longitudinaliter denticulatis.

Obs. Distincta species videtur, attamen non longe distat à C. palustri statura et inflorescentia insigniter variabili.

40. Tussilago corymbosa, corymbo femineo laxo paucifloro: corollulis ligularibus nervosis; masculo congesto, foliis cordatis sinuatis inæqualiter dentatis subtus tomentosis.

Desc. *Radix* repens. *Folia* radicalia longius petiolata, cordata, nunc sagittato-cordata, sinuata, sæpius ad $\frac{1}{3}$ nunc ad $\frac{1}{2}$ fere radii, lobis inæqualiter dentatis, dentibus mucronulo eglanduloso terminatis, adulta super glabra cum tomento aliquo in nervis venisque primariis, subter lana brevi alba implexa, diametro sesquiunciali usque $2\frac{1}{2}$ uncias æquanti. *Scapi* 4—8-unciales, adulti tomento parco obsiti, bracteis (petiolis dilatatis) amplexicaulibus, sæpius foliolo nano dentato terminatis. *Anthodia* polygamo-dioica. Mas. *Corymbus* coarctatus pauciflorus: *anthodiis* radiatis: *ligulis* femineis, lamina oblonga: *flosculis* hermaphrodito-masculis, in-

fundibuliformibus, stigmatibus hispidis, incrassatis, exsertis. FEM. *Corymbus* simplex, 5—8-florus: *pedunculi* involucro longiores, bracteis nonnullis linearibus acuminatis pilis articulatis pubescentes. *Involucrum* (calyx communis) simplici serie polyphyllum, foliolis acutis, extus pubescentibus, pilis articulatis brevibus. *Corollulæ* omnes ligulatæ, femineæ, præter 2—3 centrales, hermaphrodito-masculas. *Femineæ* involucro longiores, ligula 2—3-nervi indivisæ, stigmatibus patulis, stylis extra tubum hispidulis.

Obs. Proxima species T. frigidæ, quæ differt præsertim thyrso femineo multifloro congesto demum fastigiato, masculo laxiore, foliis minus altè sinuatis.

41. ANTENNARIA ALPINA, *Br. in Linn. soc. transact.* 12. *p.* 123.

Gnaphalium alpinum. *Linn. sp. pl. ed.* 2. *p.* 1199. *lapp. n.* 301. *Willden sp. pl.* 3. *p.* 1883. *Pers. syn.* 2. *p.* 421. *Wahlenb. lapp.* 202. *Helv. p.* 149. *Carpat. in obs. ad. p.* 258. *Pursh. am.* 2. *p.* 525. *Richardson in Franklin's journ. p.* 747.

Obs. Planta feminea tantum in Melville Island lecta; mascula à nobis nondum visa (nisi hujus forsan varietas pusilla ab Oonalaska,) et nullibi, quantum scio, observata!

CAMPANULACEÆ.

42. CAMPANULA UNIFLORA, *Linn. sp. pl. ed.* 2. *p.* 231. *flor. lapp. n.* 85. *t.* 9. *f.* 5. 6. *Rottb. in act. hafn.* 10. *p.* 432. *t.* 6. *n.* 19. *Willden. sp. pl.* 1. *p.* 890. *Pers. syn.* 1. *p.* 188. *Wahlenb. lapp. p.* 63. *Flor. Dan.* 1512. *Svensk bot.* 526. *Richardson in Franklin's journ. p.* 733.

ERICINÆ.

43. ANDROMEDA TETRAGONA, *Linn. sp. pl. ed.* 2. *p.* 563. *lapp. n.* 166. *t.* 1. *f.* 4. *Willden. sp. pl.* 2. *p.* 607. *Pers. syn.* 1. *p.* 480. *Flor. Dan.* 1030. *Pall. ross.* 2. *p.* 56, *t.* 73. *f.* 4. *Wahlenb. lapp. p.* 200. *Br. spitzb. pl. in Scoresby's arct. reg.* 1. *append. p.* 75. *Ross' voy. ed.* 2. *v.* 2. *p.* 192. *Richardson in Franklin's journ. p.* 737.

SCROPHULARINÆ.

44. PEDICULARIS ARCTICA, caule simplici lanato, foliis pinnatifidis lobis sub-ovatis dentato-incisis: adultis glabris; caulinis petiolo dilatato, calycibus quinquifidis lanatis, galea obtusa truncata bidentata, filamentis longioribus hirsutis.

DESC. *Radix* fasciculata, fibris crassis carnosis. *Caulis* simplex, foliatus, 2-3-uncialis, lana alba implexa tardius nec omnino decidua. *Folia* circumscriptione linearia, pinnatifida; lobis sæpius approximatis, dentatis, primò lanata, adulta glabriuscula; *petioli* omnium, radicalium præcipue, lanati. *Spica* multiflora, densa, florida sesquiuncialis, fructifera 2-3-uncialis: *bracteæ* foliaceæ, pinnatifidæ. *Calyx* lanatus, lana, copiosa, alba, implexa, persis-

tenti, semiquinquifidus, laciniis inæqualibus, semilanceolatis, integerrimis, vel obsoletissime dentatis. *Corolla* purpurea, glaberrima: *galea* leviter falcata, obtusa, antice apice oblique truncata et ad truncaturæ basin utrinque dente unico acuto brevi quandoque brevissimo. *Stamina* inclusa: *Filamenta* duo longiora extra medium hirsuta, duo breviora longitudinaliter glabra: *Antheræ* uniformes, imberbes, basi bifidæ. *Stigma* subcapitatum, sæpius exsertum. *Capsula* calyce persistenti duplo longior, ovata, acuminata, inæquilatera, margine inferiore rectiusculo superiore modice arcuato, bilocularis, bivalvis, valvis medio septigeris, septi dimidio inferiori placentifero. *Semina* oblonga, teretiuscula, altero latere margine perangusto aucta, utraque extremitate areola nigricanti notata.

Obs. Species proxima P. sudeticæ *Willden. 3. p. pl. 3. p.* 209. quæ differt statura majore, caule glabro, foliorum lobis linearibus inciso-pinnatifidis; caulinis petiolo haud dilatato, corollæ labio inferiore manifestè dentato. P. sudetica *Richardson in Franklin's jour. p.* 742. à sudetica vera vix diversa est nisi corollæ labio superiore breviore, denticulo longiore, caule subunifolio nec species distincta videtur.

POLYGONEÆ.

45. Polygonum viviparum, *Linn. sp. pl. ed. 2. p.* 516. *fl. lapp. n.* 152. *Gmel. sib. 2. p.* 44. *n.* 34. *t.* 7. *f.* 2. *Willden. sp. pl. 2. p.* 441. *Pers. syn.* 1. *p.* 439. *Smith brit.* 1. p. 428. *Engl. bot.* 669. *Fl. Lond. new ser.* 1. *t.* 81. *Wahlenb. lapp.* 99. *Flor. Dan.* 13. *Svensk. bot.* 336. *Marsch. taur-caucas.* 1. *p.* 301. *Pursh. am.* 1. *p.* 271. *Giesecke Greenl. in Edin. encyclop. Hooker in Scoresby's greenl. p.* 410. *Richardson in Franklin's journ. p.* 737.

Natter Wurtz, *Marten's Spitzb. lib.* 3. *cap.* 7. *t.* I. *a.*

OXYRIA.

Oxyria, *Hill. veg. syst.* 10. *p.* 24. (genus omnino artificiale, *Hill l. c.*) *De Cand. fl. franc.* 3. *p.* 379. (Rumicis subgenus). *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 192. (genus distinctum). *Campdera rumex, p.* 153. *Hooker Scot. p.* 99.

Char. Gen. *Perianthium* tetraphyllum (duplici serie.) *Stamina* 6. *Styli* 2. *Stigmata* penicillata. *Achenium* lenticulare, membranaceum, utrinque alatum, perianthio infra cinctum. *Embryo* centralis.

Obs. Genus propius accedens Rheo quam Rumici, ab utroque satis distinctum.

A Rheo differt numero binario perianthii et stylorum, stigmatibus penicillatis, (quæ in Rheo capitata sublobata,) et textura achenii: convenit numero proportionali et situ staminum (quæ geminatim nempe foliolis exterioribus et solitarie interioribus perianthii opposita) pericarpio semidenudato alato, et embryone centrali.

Rumex ab Oxyria diversus est numero ternario omnium partium floris, situ staminum, quæ sex tantum et geminatim foliolis exterioribus perianthii opposita, fructu nucamentaceo aptero, foliolis interioribus mutatis perianthii tecto, embryone laterali: convenit fere stigmatum divisione.

Ovuli insertionem et Radiculæ embryonis situm inter notas genericas haud introduxi:

Semen enim erectum cum Embryone inverso uti character totius ordinis, (incluso certe Calligono contra assertionem Campderæ l. c.) eundem à Chenopodeis optime distinguens in *prodr. flor. nov. holl. p.* 419. primus proposui. Inter ordines apetalos similem structuram seminis in Urticeis et Piperaceis, aliis notis distinguendis, obtinet: dum Embryo inversus cum ovulo pendulo characterem essentialem CHLORANTHEARUM (*Br. in Bot. magaz.* 2190. *nov.* 1820.) efformat.

46. OXYRIA RENIFORMIS, *Hooker scot. p.* 111. *Scoresby's greenl. p.* 410. Oxyria digyna, *Campd. rumex, p.* 155.

Rheum digynum. *Wahlenb. lapp.* 101. *tab.* 9. *fructus. Helv. p.* 74. *Carpat.* 114.

Rumex digynus, *Linn. sp. pl. ed.* 2. *p.* 480. *fl. lapp. n.* 132. *obs. β. Willden. sp. pl.* 2. *p.* 258. *Pers. syn.* 1. *p.* 395. *Smith brit.* 1. *p.* 395. *Eng. bot.* 910. *Flor. Dan.* 14.

47. SALIX ARCTICA, ovariis subsessilibus tomentosis, stigmati quadrifido stylum subæquante, squamis orbiculato-obovatis, foliis integerrimis ovalibus obovatisve: adultis super glabris subter villosiusculis.

Salix arctica, *Br. in Ross' voy. ed.* 2. *v.* 2. *p.* 194. *Richardson in Franklin's journ. p.* 752.

Salix n. 37. *Hooker in Scoresby's greenl. p.*414.* secundum specim. à D. Scoresby.

Salix, *Greville in Mem. Wern. soc.* 3. *p.* 432. fide specim. in herb. grœnl. D. Jameson.

DESC. *Frutex* depressus; *radice* lignea crassa longa. *Rami* decumbentes, floriferi omnes et sterilium nonnulli adscendentes, adulti glabri. *Folia* sparsa, petiolata, elliptico-obovata, v. obovata, integerrima, obtusa, quandoque retusa, novella super glabra, subter villis longis laxis decumbentibus, adulta utrinque glabra, venis subter paulo eminentibus venulis anastomozantibus. *Amenta* utriusque sexus ramos breves villosos foliatos terminantes. *Squamæ* orbiculato-obovatæ sæpe retusæ, fusco-nigricantes, villosæ. *Masc.* 8-10-lin. longa, densa. *Stamina* 2-3, forsan sæpius 3, filamentis distinctis. *Squamulæ* (Nect.) duæ, interiore paulo majore, utraque apice incrassato. *Fem. Squamula* unica, interior. *Ovarium* brevissime pedicellatum, pedicello diametrum transversum capsulæ vix æquante, dense tomentosum, cinereum. *Stylus* longitudine varians nunc stigmata æquans, nunc fere dimidio brevior.

MONOCOTYLEDONES.

JUNCEÆ.

48. JUNCUS BIGLUMIS. *Linn. sp. pl. ed.* 2. *p.* 467. *Montin in Amæn. acad.* 2. *p.* 266. *t.* 3. *f.* 3. *Flor. Dan.* 120. *Zœg. pl. island. in Olafs. reise* 2. *p.* 235. *Vahl in act. soc. hist. nat. hafn.* 2. *par.* 1. *p.* 38. *Willden. sp. pl.* 2. *p.* 216. *Pers. syn.* 1. *p.* 385. *Smith brit.* 1. *p.* 382 *Engl. bot.* 898. *Bicheno in Linn. soc. transact.* 12. *p.* 320. *Hooker scot. p.* 106.

49. Luzula hyperborea, spicis multifloris subumbellatis pedunculatis sessilibusque (nunc omnibus sessilibus), bractea umbellæ foliacea; partialibus omnibus fimbriatis, capsulis obtusis perianthia acuta subæquantibus, caruncula basilari seminis obsoleta, foliis planis.

Luzula campestris, *Br. spitzb. pl. in Scoresby's arct. reg.* 1. *append. p.* 75.

Juncus arcuatus, *Hooker in Scoresby's greenl. p.* 410. secund exempl. à D. Scoresby.

Juncus campestris, *Soland. in Phipps' voy. p.* 201. fide exempl. in Herb. Banks.

Obs. Vix distincta species, et potius ad *L. campestrem* mire variantem, quam ad *L. arcuatam* referenda; præsertim ob bracteam umbellæ sæpissime, non vero semper, foliaceam, et folia plana. L. arcuatæ β. (*Wahlenb. lapp. p.* 88. *cujus fig. in Flor. Dan.* 1386. sed exel. syn. Villars,) tamen accedit, inflorescentia, spicis multifloris, longius pedunculatis, quandoque etiam arcuato-recurvis, bractea umbellæ nunc, rarissime quamvis, squamacea, partialibus omnibus fimbriatis, et caruncula seminis obsoleta. Hæc autem forsan distincta à L. arcuata α. *Wahlenb. lapp. p.* 87. *t.* 4. *Hooker flor. lond. n. ser. t.* 151. cui spicæ longius pedunculatæ paucifloræ, et semina ni fallor absque caruncula.

In Luzulis omnibus, quas examini subjeci, excepta L. pilosa, observavi funiculum umbilicalem è filis spiralibus (decompositione partiali funiculi denudatis?) compositum.

CYPERACEÆ.

50. Carex misandra, spicis (4—6) pedunculatis ovalibus pendulis: terminali basi mascula; reliquis femineis, fructibus lanceolatis acuminatis bidentatis margine denticulatis squama ovali longioribus, stigmatibus 2-3.

Desc. (exemplarium quatuor incompletorum cum spicis fructiferis et portione culmi, in herbario D. Ross.) *Folium supremum* breve, lineare, marginibus longitudinaliter denticulatis. *Spicæ* v. umbellatæ, v. alternæ, fructiferæ ovales v. oblongæ pendulæ, pedunculis viridibus, laxis, angulatis, spica longioribus. *Bractea* umbellæ communis vaginans, basi atro-fusca, supra viridis in folium breve subulato-lineare, planum, marginibus denticulato-asperis producta, includens nonnullas partiales, quarum ima communi subsimilis, foliolo breviore terminata, nunc exserta. *Squamæ* ovales, obtusiusculæ, læves, glabræ, nigro-fuscæ apice limbo angusto albo. *Fructus* circumscriptione lanceolatus, acuminatus, basi attenuata, fusco-ater, ore ipso albicanti emarginato, marginibus acuminis et dimidii superioris denticulatis, cæterum lævis. *Achenium* intra cupulam brevè pedicellatum, obovatum, ventre plano, dorso dum stigmata duo modice convexo dum tria angulato.

Obs. Nimis affinis C. fuliginosæ *Sternb. et Hoppe in act. soc. bot. Ratisb.* 1. *p.* 159. *t.* 3. vix distincta species.

51. Carex concolor, spicis sexu distinctis: mascula unica; femineis 2-3 erectis subsessilibus, squamis omnibus obtusis axi subconcolori, bracteis basi auriculatis, capsulis lævibus ovalibus mucronulo brevissimo integerrimo, stigmatibus 2, culmis lævibus.

Obs. C. cæspitosæ proxima et vix differt nisi statura minori (3-4 unciali) squamis (nigro-spadiceis) axi sæpius marginibus semper concoloribus, foliis utrinque viridibus et culmis lævibus. An revera distincta species?

52. ERIOPHORUM CAPITATUM, *Host gram. austr.* 1. *p.* 30. *t.* 38. *Schrad. germ.* 1. *p.* 151. *Wahlenb. lapp. p.* 18. *Smith comp. ed.* 2. *p.* 11. *Engl. bot.* 2387. *Hooker scot. p.* 20.

53. ERIOPHORUM ANGUSTIFOLIUM, *Willden. sp. pl.* 1. *p.* 313. *Smith brit.* 1. *p.* 59. *Engl. bot.* 564. *Schrad. germ.* 1. *p.* 153. *Hooker scot. p.* 21.

Eriophorum polystachion, *Wahlenb. lapp. p.* 18.

Obs. Plantæ nostræ, quasi mediæ inter E. angustifolium et polystachyon forsan ab utroque distinctæ, duæ varietates adsunt.

α. pedunculis lævibus.

β. pedunculis scabris, denticulis crebris minutis.

Hæc ab E. gracile, *Roth catalect.* 2. *add.* et *Wahlenb. lapp. p.* 19. fid. exempl. ab ipsis auctoribus in Herb. Banks., certe diversa, statura humiliori, foliis latioribus, squamis enerviis omnino nigricantibus acutioribus, et acheniis oblongo-obovatis.

GRAMINEÆ.

54. ALOPECURUS ALPINUS, spica ovata, arista perianthii glumam sericeam latèribus villosissimis subæquante, vagina suprema ventricosa folio suo plano lanceolato triplo longiore.

Alopecurus alpinus, *Smith brit.* 3. *p.* 1386. *Engl. bot.* 1126 .*Hooker scot. p.* 22. *Roem. et Schul. syst.* 2. *p.* 272. *Br. in Ross' voy. ed.* 2. *v.* 2. *p.* 191. *Hooker in Scoresby's greenl.* 410. *Richardson in Franklin's journ. p.* 731.

Alopecurus ovatus, *Knapp gram. brit.* 15. *Hornem. in Flor. Dan.* 1565.

Alopecurus antarcticus, *Giesecke greenl. in Brewster's edin. encyclop.*

Obs. Species (quam primus in Scotiæ monte Loch ny Gaar anno 1794 legi) variat culmo, qui sæpius adscendens, erecto, spica oblongo-cylindracea, arista nunc gluma duplo longiore, rarius nulla.

A. antarcticus, *Vahl symb.* 2. *p.* 18. *Willden. sp. pl.* 1. *p.* 357. ab A. alpino differt spica sæpius cylindracea, arista glumam bis superante, folio supremo lineari apice attenuato vaginam suam superante v. æquante.

A. pratensis *L.* distinguitur spica cylindracea, glumis acutis latere tantum villosiusculis, arista glumis duplo longiore, vagina suprema laxiusculè cylindracea folium suum lineare multoties superante.

PHIPPSIA.

Phippsia (subgenus Vilfæ) *Trinius in Spreng. neue entdeck. 2. p. 37.*

Char. Gen. *Gluma* uniflora, abbreviata, inæquivalvis. *Perianthium* muticum, obtusum, imberbe; *valvula superiore* nervis sursum divergentibus. *Lodiculæ* 2. *Stam.* 1-3. *Stigmata* 2, sessilia. *Caryopsis* libera, teres, exsulca.

Gramen *pusillum, aquaticum v. in inundatis nascens.* Culmi *basi divisi.* Folia *plana*; vagina *integra, ipso apice tantum fisso.* Panicula *coarctata, ramis semiverticillatis.* Glumæ *enerves, inferiore minori.* Stamina 1-3. Stigmata *persistentia.*

Obs. E graminibus unifloris proxime accedit Vilfæ et Colpodio, affinitatem habet etiam quandam cum Schmidtia *Trattin*, (Coleanthus *Roem. et Sch. syst. 2. p.* 11.) cui certe gluma nulla, et perianthium bivalve, probante valvula superiore dinervi.

Inter genera locustis bifloris Phippsia affinis est Catabrosæ, conveniens glumis abbreviatis, perianthiis obtusis concavis et foliorum vaginis apice tantum fisso: differt locustis unifloris, caryopside tereti, nec lateraliter compressa.

55. PHIPPSIA ALGIDA.

Agrostis algida, *Soland. in Phipps' voy. p.* 200. cum descriptione accurata. *Wahlenb. lapp. p.* 25. *t.* 1. ubi perianthium pro gluma, omnino prætervisa, depictum, et lodicula, perperam indivisa et aucta, pro perianthio univalvi. *Flor. Dan.* 1505. structuram eandem exhibens ac in Wahlenb. l. c. *Br. in Ross' voy. ed. 2. v. 2. p.* 191. (Gramen sui generis.)

Trichodium algidum, *Svensk bot.* 545. f. 2. ab *ic.* Wahlenb. mutuata. *Roem. et Sch. syst. 2. p.* 283.

Desc. *Gramen* biunciale, glaberrimum, cæspitosum. *Culmi* ipsa basi divisi ibique vaginis scariosis tecti. *Folia* linearia, obtusiuscula, lævia: *ligula* brevis, obtusissima, indivisa: *vagina* laxiuscula, integra, ipso apice tantum fisso. *Panicula* coarctata, ramis semiverticillatis, paucifloris, lævibus. *Locustæ* unifloræ. *Gluma* nana, bivalvis, inæqualis, valvulæ muticæ, obtusiusculæ, concavæ, haud carinatæ, integræ, membranaceæ; *inferior* minor, enervis; *superior* plus duplo major, ipso perianthio triplo circiter brevior, obsolete uninervis; ambæ sæpissime post lapsum perianthii cum rachide persistentes, inferiore quandoque decidua. *Perianthium* intra glumam brevissime pedicellatum: *valvula inferior* concava, ovato-lanceolata, trinervis, nervorum dimidio inferiore hispidulo; *superior* ejusdem fere longitudinis et latitudinis sed diversæ figuræ, obtusa, 3-4-dentata, dinervis, nervis hispidulis à basi sursum paulo divergentibus, ipsa basi sub-approximatis. *Lodiculæ* 2, subovatæ, membranaceæ, indivisæ, glabræ. *Stamina* 1-3. *Stigmata* 2, sessilia, longa, hyalina, ramulis simplicibus. *Caryopsis* ovali-oblonga, teres, exsulca, stigmatibus emarcidis diu coronata. *Embryo* caryopside quadruplo brevior.

Obs. Hæc è speciminibus a Melville Island; species autem variat perianthii nervis lævibus, staminibus 2, et quandoque unico, nervo alteri valvulæ superioris perianthii opposito.

In Terra Tschutski à Dav. Nelson, in tertio it. Cook lecta fuit varietas (?) insignis, duplo major, culmis ramosis foliis laxioribus aliisque notis diversa: vix species distincta.

COLPODIUM.

Colpodium. *Trin. agrost. p.* 119. *f.* 7. Subgenus Vilfæ *Trin. in Spreng. neue entdeck.* 2. *p.* 37.

Char. Gen. *Gluma* uniflora, subæquivalvis, mutica. *Perianthium* gluma longius, submuticum, obtusum, apice scarioso; *valvulis* subæqualibus, integerrimis, *superiore* exserta, dinervi, lateribus parallelis. *Lodiculæ* 2. *Styli* 2. *Stigmata* plumosa. *Caryopsis*. - - - -

Gramen *glabrum*. Culmi *erecti v. adscendentes*. Folia *plana*, ligula *indivisa imberbi folio latiore*, vagina *longitudinaliter fissa*. Panicula *coarctata, ramis semiverticillatis*. Locustæ *oblongæ, glabriusculæ cum v. absque rudimento, sæpius setuliformi, flosculi secundi*.

Obs. Gramen hocce habitu fere peculiari, primo intuitu Poæ propius accedit quam Agrostidi s. Vilfæ, relationem quodammodo etiam cum Dupontia et Deschampsia habere videtur. Caryopside ignota autem genus haud stabilitum, et de ejusdem affinitate cum Colpodii speciebus Trinii, præsertim *C. Steveni* et *compresso*, incertus sum.

56. Colpodium latifolium, panicula coarctata lanceolata, foliis planis lato-linearibus.

Agrostis paradoxa, *Br. in Ross' voy. ed.* 2. *v.* 2. *p.* 192.

Desc. *Gramen* robustum, spithameum—pedale, glabrum. *Culmus* è basi decumbenti v. radicanti adscendens, nunc erectus, teres, lævis, foliatus, basi vaginis scariosis tectus. *Folia* plana, lineari-lanceata, acuta, stricta, utrinque marginibusque retrorsum scabris: *vaginæ* scabriusculæ, ad basin usque fissæ, suprema folio proprio longior: *ligula* obtusa, imberbis, erosa, denticulata, folio latior. *Panicula* coarctata, angusto-lanceolata, fusco-purpurea, perianthiorum apicibus albis, sesquiuncialis—biuncialis, ramis brevibus, semiverticillatis, appressis, inferioribus demum modice patentibus, pedunculis pedicellisque pauci-denticulatis, strictis, apice vix dilatato cum locusta continuo. *Gluma* uniflora, bivalvis, mutica, herbaceo-membranacea, glabra, valvulis suboppositis, concavis vix carinatis, obtusiusculis v. acutis, integris semitrinerviis, *inferiore* paulo breviore, nervis lateralibus brevissimis, *superiore* acutiore, nervis lateralibus magis manifestis sed longe infra apicem evanescentibus. *Perianthium* intra glumam, qua haud duplo longius, brevissime pedicellatum, cum pedicello crasso articulatum, basi obliqua, herbaceo-membranaceum, textura fere glumæ, muticum, per lentem pube brevissima conspersum, intra glumam è majore parte viride, supra eandem fusco-purpureum, apice scarioso albicanti. *Valvulæ* concavæ, textura omnino similes, longitudine subæquales, *inferior* nervo centrali manifesto sæpius apicem muticum attingenti, nunc in setulam dorsalem brevis-

simam altitudinem valvulæ subæquantem desinente, lateralibus utrinque duobus obsoletis, infra apicem prorsus evanescentibus; *superior* obtusior, integerrima, dorso angusto planiusculo vel leviter convexo, lineari, dinervi, nervis parallelis, tenuibus, nudis, lateribus dorso aliquoties latioribus, parallelis, marginibus nudis. *Lodiculæ* duæ, subcollaterales, membranaceæ, semibifidæ, dentibus acutis, imberbes, longitudine ovarii. *Stamina* 3, filamentis capillaribus, antheris fusco-stramineis, utrinque bifidis. *Ovarium* ovatum, acutum, glabrum, exsulcum. *Styli* brevissimi, approximati, vix manifesti. *Stigmata* hyalina, dense plumosa, apicibus acutis.

Obs. In exemplaribus plerisque nullum certe rudimentum flosculi secundi, quod tamen in nonnullis à Melville Island atque in exemplari à Possession Bay adest, setuliforme, hispidulum; et in specimine unico à Melville Island locustas nonnullas bifloras flosculo secundo pedicellato perfecto observavi.

57. Poa angustata, panicula simplici coarctata lineari-lanceolata, locustis 4-5-floris, gluma inferiore dimidio minore, perianthiis apice erosis: valvula inferiore basi elanata lateribus glabriusculis, foliis angusto-linearibus.

Desc. *Gramen* 4-6-unciale, glabrum, erectum; *radice* fibrosa. *Culmi* foliati, basi quandoque divisi, læves. *Folia* angusto-linearia, plana, acuta, glabra, lævia; *vaginæ* subcylindraceæ, læves, suprema folio proprio longior, omnes ipsa basi integra; *ligula* subquadrata tam lata quam longa, apice dentato dente medio paulo longiore. *Panicula* erecta, angustata, circumscriptione lineari-lanceolata, ramis paucifloris, pedicellis denticulatis, strictis, viridibus, apice paulo dilatato, cum locusta haud omnino continuo. *Locustæ* oblongæ, coloratæ, sæpius quadrifloræ. *Glumæ* hyalinæ, glaberrimæ, uninerviæ, cum pedicellis persistentes, valvula inferiore fere dimidio minore; superiore duplo latiore et fere duplo longiore, obtusiore, perianthio dimidio circiter breviore, nervis lateralibus obsoletis. *Perianthia* separatim decidentia, rachi locustæ glabra; *valvula inferior* oblonga, concava, acutiuscula, apice scarioso erosodenticulato, quinquinervis, lateribus infra medium pube rara in nervis extimis crebriore instructis, ipsa basi absque lana implexa; *superior* paulo brevior, dinervis, nervis viridibus, denticulatis, lateribus complicatis. *Lodiculæ* 2, hyalinæ, imberbes, semibifidæ. *Stamina* 3.

58. Poa abbreviata, panicula simplicissima coarctata subovata, locustis 4-5-floris, glumæ valvulis subæqualibus acutissimis perianthia basi lanata lateribus pubescentia æquantibus, foliis involuto-setaceis.

Desc. *Gramen* 3-4-unciale. *Culmi* foliati, basi sæpe divisi, læves. *Folia* involuta, subsetacea, retrorsum scabra, *vaginæ* fere ad basin usque fissæ, cylindraceæ. *Panicula* vix semuncialis, ramis alternis, subbifloris, strictis, lævibus, vix denticulatis. *Locustæ* oblongæ, coloratæ. *Glumæ* acutissimæ, valvulis longitudine subæqualibus, carinatis, glaberrimis, *inferiore* manifeste angustiore, paululum breviore, uninervi; *superiore* basi trinervi. *Perianthia* glumas paulo superantia; *valvula inferior* ipsa basi lana implexa parca instructa, carina à basi ad duas tertias partes longitudinis sericea, linea pariter sericea utrique margini approximata,

à basi ad eandem fere altitudinem attingenti, intersticiis pubescentibus subsericeis; *superior* dinervis, nervis pectinatim denticulatis, lateribus induplicatis latiusculis. *Lodiculæ* 2. *Stamina* 3, antheris stramineis. *Ovarium* imberbe. *Stigmata* 2, subsessilia, plumosa, hyalina.

59. Poa arctica, panicula effusa: ramis paucifloris capillaribus lævibus locustisque coloratis ovatis 3-4-floris, glumis subæqualibus, perianthii valvula inferiore basi lanata carina lineaque submarginali sericeis: intersticiis pubescentibus, foliis linearibus: ligula subquadrata erosa.

Poa laxa, *Br. in Ross' voy. ed. 2. v. 2. p.* 192.. *Hooker in Scoresby's greenl. p.* 410. non Willdenovii.

Desc. *Gramen* 5-8-pollicare. *Culmi* erecti v. adscendentes, basi quandoque divisi, graciles, læves, foliati. *Folia radicalia* angusto-linearia, canaliculata, culmo aliquoties breviora; *culmea* paulo latiora, plana, marginibus lævibus, denticulis obsoletissimis: *vaginæ* strictæ, striatæ, læves, ipsa basi integra; *ligula* subquadrata, nunc paulo longior quam lata, apice eroso-inciso. *Panicula* sæpius effusa, nunc rara, nunc minus effusa, rarissime subcoarctata, rachi ramisque fuscis, ramis 3-4, semiverticillatis, 1-2-floris, capillaribus, lævibus. *Locustæ* ovatæ v. oblongo-ovatæ, fusco-purpureæ, apicibus valvularum stramineo-fuscis ipsoque margine albo, 3-4-floræ, cum rudimento minuto scarioso longius pedicellato quarti v. quinti; rachi articulatim solubili, per lentem scabriuscula. *Glumæ* subæquivalves, carinatæ, acutæ, fusco-purpureæ, glaberrimæ, carina extra medium obsoletissime denticulata; *inferiore* angustiore, nervis lateralibus obsoletioribus, altero obsoletissimo; *superiore* vix longiore, nervis lateralibus manifestioribus. *Perianthii valvula inferior* oblonga, subcarinata, ipsa basi v. potius ex apice articuli racheos lana longa contortuplicata flosculos subnectenti, carina à basi ad duas tertias partes longitudinis sericea, villis brevibus, supra obsoletissime denticulata, lateralibus à basi ad eandem circiter altitudinem ac portio sericea carinæ pubescentibus, linea intramarginali sericea: *valvula superior* inferiore paulo brevior, dinervis, nervis viridibus, pectinato-ciliatis pilis brevibus, lateribus induplicatis axin fere attingentibus. *Lodiculæ* 2, cuneiformes, semibifidæ dentibus acutis, hyalinæ, imberbes, ovario breviores. *Stamina* 3, antheris stramineis. *Ovarium* oblongum, imberbe. *Styli* 2, brevissimi. *Stigmata* hyalina, laxe plumosa ramis denticulatis.

Obs. Exemplaria nonnulla statura majore, locustis acutioribus, glumis acuminatis perianthia inferiora subæquantibus, foliis latioribus.

Poa laxa *Willden. sp. pl.* 1. *p.* 386., quam ex eodem monte Silesiæ ubi à b. Haenke detecta fuit habeo à D. Trevirano communicatam, differt statura minore, panicula coarctata, rachi ramisque paniculæ et glumis infra medium viridibus, perianthiis acutioribus lana baseos parciore; locustæ rachi lævi.

Poa flexuosa *Host gram. austr.* 4. *p.* 15 .*t.* 26. quæ similis videtur P. arcticæ panicula effusa et locustæ colore figura et pubescentia, differt paniculæ rachi ramisque viridibus magis divisis scabris, glumarum carinis longitudinaliter denticulatis.

60. Festuca brevifolia, racemo subsimplici erecto, flosculis teretibus supra scabriusculis arista duplo longioribus, foliis setaceis vaginisque lævibus: culmeo supremo multoties breviore vagina sua laxiuscula.

Obs. Facies et statura fere F. ovinæ inter quam et F. Halleri media; priori forsan nimis affinis.

61. Festuca vivipara.

Obs. Nullam observationem habeo de exemplari unico Festucæ cujusdam viviparæ olim viso in herbario D. Sabine, ulterius examinando.

PLEUROPOGON.

Char. Gen. *Locustæ* multifloræ, cylindraceæ. *Gluma* abbreviata, inæquivalvis, mutica. *Perianthii valvula inferior* mutica, obtusa, concava, nervosa, apice scarioso: *superior* nervo utroque lateraliter biseto! *Lodiculæ* distinctæ. *Styli* 2. *Stigmata* plumosa. *Caryopsis* libera, lateribus compressis.

Gramen *elegans*. Folia *plana, angusta*, vagina *integra, ipso apice tantum fisso*. Racemus *simplex, locustis cernuis, purpureis, nitentibus*. Gluma *valvula inferiore acuta, superiore latiore obtusa*. Perianthia *distincta, valvula inferiore 5-7-nervi, superiore lanceolata emarginata, pari superiore setarum brevissimo*.

Obs. Genus Glyceriæ proximum, quacum locustis teretibus, perianthiis obtusissimis et vaginis foliorum integris convenit; differt præsertim setis lateralibus nervorum valvulæ superioris perianthii, lodiculis distinctis, stigmatibus haud decompositis, caryopside lateraliter compressa et inflorescentia.

Character fere essentialis in nervis valvulæ superioris perianthii latere setigeris; analoga structura enim vix, quantum scio, in ullo alio gramine obtinet nisi in Uniola latifolia *Mich. am.*, ubi equidem nullis aliis differentiis comitata pro charactere specifico tantum habenda.

62. PLEUROPOGON SABINII—Tab. D.

Desc. *Gramen* 3-unciale usque spithameum, glabrum. *Culmi* erecti, foliati, striati, læves, simplices. *Folia* radicalia angustiora, longiora; culmea linearia, plana, brevia, lævia: *vaginæ* paulo compressæ, striatæ, glabræ, læves, fere ad apicem integræ, ipso apice fisso, marginibus scariosis, suprema folio proprio longior: *ligula* brevissima, rotundata, emarginata. *Spica* racemosa, simplicissima, rachi striato-angulata, lævi, viridi, pedunculis lateralibus glumam vix superantibus, recurvis, lævibus, indivisis, alternis, distantibus. *Locustæ* subcylindraceæ, cernuæ v. pendulæ, semunciales, purpureæ, nitidæ, per lentem tenuissime pubescentes. *Gluma* bivalvis, nana, inæqualis, membranacea, purpurea, mutica; *valvula inferiore* ovata,

acuta; *superiore* obovata, obtusissima, inferiore duplo latiore, paulo longiore. *Perianthia* alterna, distincta. *Valvula inferior* obovato-oblonga, obtusissima, concava, quinquinervis, extus pube brevissima appressa conspersa, apice marginibusque ab apice ad medium albis, scariosis, nervis omnibus infra apicem desinentibus, medio in mucronulum brevissimum, marginem valvulæ vix attingentem producto. *Valvula superior* longitudine fere inferioris, manifeste angustior, elliptico-lanceolata, apice profunde emarginato, lateribus induplicatis, dinervis, nervis brevissime ciliatis, singulis bisetis, *setis* lateralibus, per paria oppositis, *duæ inferiores* infra medium valvulæ ortæ, subulato-filiformes, strictæ, modice patentes, denticulatæ, longitudine circiter dimidii totius valvulæ; *duæ superiores* paulo supra medium valvulæ ortum ducentes, brevissimæ, denticulatæ, mucroniformes, altera quandoque obsoleta. *Lodiculæ* 2, collaterales, approximatæ, brevissimæ, truncatæ, basi leviter cohærentes, sed absque læsione separandæ. *Stamina* 3, filamentis capillaribus, antheris linearibus utrinque semibifidis. *Ovarium* ovatum, imberbe. *Styli* 2, glabri. *Stigmata* laxe plumosa, hyalina, ramis denticulatis, superioribus vix brevioribus. *Caryopsis* libera, lateraliter compressa, ventre angusto-lineari, leviter canaliculato, axi longitudinaliter saturatiore. *Embryo* caryopside triplo brevior.

Obs. Duplex varietas.

α. elatior, subspithamea, antheris stramineis. Tab. D. f. 1—7.

β. 3-4-uncialis, antheris purpureis. Tab. D. f. 8—10.

The specific name is given in honour of Captain Edward Sabine, in whose herbarium, the most extensive formed in the voyage, numerous specimens were found of both varieties of this remarkable grass.

EXPLICATIO TABULÆ D.

PLEUROPOGON SABINII. 1. Varietatis α. planta magnitudine naturali. 2. ejusd. locusta cum pedunculo et portione racheos magis aucta. 3. perianthium clausum articulo racheos insidens, auctius. 4. id. expansum, pariter auctum. 5. valvula superior perianthii facie visa ad id. augment. 6. pollen. 7. flosculus perianthio orbatus exhibens stamina pistillum et lodiculas auct. uti 4 et 5. 8. Var. β. planta mag. natur. 9. ejusd. locusta cum pedunculo ad augm. id. ac 2. 10. perianthium expansum genitalia et lodicularum alter exhibens ad augm. n. 4.

DUPONTIA.

CHAR. GEN. *Gluma* subæquivalvis, scariosa, concava, mutica, locustam 2-3-floram subæquans. *Perianthia* mutica, scariosa, (basi barbata,) altero pedicellato; valvulis integris, inferiore concava. *Lodiculæ* 2. *Ovarium* imberbe. *Stigmata* subsessilia. *Caryopsis* - - - -

Gramen *glabrum, erectum.* Folia *linearia, plana, vaginis semifissis, basi integra.* Panicula *simplex, coarctata, fusco et purpurascenti varia, pedicellis cum locustis continuis, perianthiis separatim solubilibus.*

Obs. Ad Deschampsiam proxime accedit hocce genus; distinguitur perianthiis muticis, valvulis integris nec dentatis. Cum Catabrosa, facie diversissima, convenit pluribus notis, differt glumis locustam subæquantibus, perianthiis basi brevè barbatis. A Poa diversum locustis haud compressis, glumis perianthiisque concavis nec carinatis. Ad confirmandum genus caryopsis desideratur.

This genus is named in honour of Monsieur Dupont, of Paris, author of a valuable essay on the Sheath of the leaves of Grasses, and of observations on the genus Atriplex.

63. Dupontia Fisheri.

Desc. *Gramen* 6-10-unciale, erectum. *Culmi* simplices, foliati, læves, glaberrimi. *Folia radicalia* et inferiora culmi canaliculata, angusto-linearia, acuta, lævia, 2-3-uncialia, *vaginis* strictis, scariosis, vix ad medium fissis; *culmea* 1-2-superiora breviora, plana, lævia, vaginis propriis laxiusculis foliaceis ultra medium fissis longiora: *ligula* mediocris, obtusa, subtruncata, imberbis. *Panicula* coarctata, spiciformis, basi quandoque interrupta, purpureo-fusca, niteus, sesquiuncialis—biuncialis, ramis subgeminatis, paucifloris, pedicellisque lævibus cum locusta continuis. *Locustæ* ovatæ, biflorœ, cum rudimento clavato setuliformi tertii flosculi, nunc trifloræ flore tertio completo, nunc biflorœ absque tertii rudimento. *Gluma* bivalvis, subæqualis, mutica, glaberrima, purpurascens, subnitens, margine pallido scarioso, longitudine locustæ. *Valvulæ* concavæ nec carinatæ, oblongo-lanceolatæ, *inferior* paulo angustior, acuminata v. acutissima, uninervis; *superior* semi-trinervis, medio paulo infra apicem lateralibus longe intra marginem evanescentibus. *Perianthia* subconformia; *inferius* intra glumam subsessile, à pedicello brevissimo separabile; *superius* cum apice paulo dilatato pedicelli brevis articulatum, facile solubile; utriusque *valvula inferior* ovata mutica obtusa, vix unquam acuta, integra, concava, ipsa basi pilis brevibus strictis albis barbata, et à basi fere ad medium pilis brevioribus strictis subadpressis subsericea, trinervis, nervis lateralibus intra marginem evanescentibus, medio paulo infra apicem desinente: *superior* longitudine inferioris, manifeste angustior, lineari-oblonga, glaberrima, dinervis, nervis brevibus, intersticio lineari concaviusculo. *Lodiculæ* duæ, distinctæ, collaterales, membranaceæ, hyalinæ, subovatæ, v. cuneatæ, apice eroso-dentato, ovario longiores. *Stamina* 3, filamentis distinctis, capillaribus, antheris fusco-purpureis, linearibus utrinque bifidis. *Ovarium* ovale, glabrum. *Stigmata* 2, subsessilia, hyalina, dense plumosa, ramis apicem versus brevioribus.

Obs. The specific name is that of Mr. Fisher, whose herbarium contained the most complete series of specimens of this grass.

64. Deschampsia brevifolia, panicula coarctata lanceolata: pedicellis lævibus, locustis 2-3-floris, arista stricta valvulam subæquante, foliis involutis: caulinis abbreviatis.

Desc. *Gramen* 3-5-unciale, glabrum. *Culmi* simplices, erecti, foliati. *Folia* inferiora involuto-subulata, stricta, uncialia—sesquiuncialia; *vaginis* strictis, folio brevioribus, ipsa basi integra: *ligula* oblonga, lacinulata; *supremum* brevissimum, vagina elongata, laxiuscula, ligula breviore. *Panicula* coarctata, lanceolata v. oblonga, fusco-purpurascens, scariosa, ramis semiverticillatis. *Locustæ* biflorœ, raro trifloræ, semper cum rudimento, pedicelliformi

flosculi alterius. *Gluma* subæquivalvis, mutica, acuta, valvulis lanceolatis, concavis, acutissimis, scariosis, disco purpurascenti, limbo pallido, uninerviis, locusta paulo brevioribus. *Perianthia* subuniformia, scarioso-membranacea, separatim solubilia, inferius sessile; *valvula inferior* ipsa basi barbata, pilis brevibus, strictis, albis, cæterum glabra, concava, subquinquinervis, nervis omnibus lævibus, lateralibus obsoletis, apice eroso-multidentato, dorso sæpius infra medium aristata, arista setacea, recta, denticulata, valvulam ipsam vix vel paulo superanti: *superior* longitudine inferioris, angustior, dinervis, apice bidentato, quandoque semibifido. *Lodiculæ* 2, collaterales, hyalinæ, imberbes, acutæ, ovario longiores. *Stamina* 3, antheris purpureis, utrinque bifidis. *Ovarium* glabrum. *Stigmata* 2, sessilia, hyalina, dense et breve plumosa. *Flosculus superior* pedicello barbato quocum articulatus insidens, paulo minor, arista valvulæ inferioris medio vel supra medium dorsi inserta. *Rudimentum* flosculi tertii *setula* est extus longitudinaliter barbata, clavula scariosa minutissima terminata.

β. Perianthia mutica.

Hujus quatuor exemplaria tantum visa à varietati α. facie paulo diversa folio supremo longiori.

TRISETUM.

Triseti species *Palis. agrost. p.* 88. charactere reformato.

CHAR. GEN. *Locustæ* 2-5-floræ, ancipites. *Gluma* carinata, membranacea, subæquivalvis. *Perianthii valvula inferior* carinata apice bidentata v. biseta, dorso (supra medium) aristata. *Caryopsis* libera, exsulca, lateraliter compressa.

Gramina *cæspitosa;* vaginis *longitudinaliter fissis.* Panicula *sæpe coarctata, aristis arcuato-patulis.*

Obs. A Deschampsia differt locustis ancipitibus, glumis carinatis, perianthii valvula inferiore carinata apice attenuato bidentato v. biseto, caryopside lateraliter compressa. Ab Avenis plerisque glumis perianthiisque carinatis; ab omnibus caryopside exsulca et lateribus compressis.

65. TRISETUM SUBSPICATUM, *Palis. agrostr. p.* 88. Trisetum airoides, *Roem. et Sch. syst.* 2. *p.* 666. exclus. syn. Wulfen et Host. *Richardson in Franklin's journ. p.* 731.

Aira spicata, *Linn. sp. pl. ed.* 2. *p.* 95. *fl. lapp. n.* 47. *Flor. Dan. t.* 228. mala. *Gunn. norv. n.* 422. *Wahlenb. lapp. p.* 33.

Aira subspicata, *Linn. syst. nat. ed.* 12. *v.* 2. *p.* 91. *Willden sp. pl.* 1. *p.* 377. *Pers. syn.* 1. *p.* 77. *Zæg. pl. island. in Olafs. reise* 2. *p.* 234. *Giesecke greenl. in Brewster's Edin. encyclop.*

HIEROCHLOE.

Hierochloe *Gmel. sib.* 1. *p.* 100. *Br. prodr. flor. nov. holl. p.* 208. *Trin. agrost. p.* 130.

Hierochloa et Toresia, *Palis agrost. p.* 62 *et* 63.

Char. Gen. *Gluma* subæquivalvis, locustam trifloram æquans. *Perianthia* bivalvia, *lateralia* mascula, triandra; *terminale* hermaphroditum, diandrum.

Obs. Relationem veram Anthoxanthi ad Hierochloem, in prodr. flor. nov. holl. p. 209, primum indicatam, optime confirmat planta Javanica intermediæ structuræ à D. Horsfield detecta; in hac enim perianthium *lateralium inferius* masculum bivalve, *superius* univalve, neutrum: *terminale* hermaphroditum. Hujus novi generis (Ataxia) habitus potius est Anthoxanthi, quocum etiam gluma inæquivalvi quadrat.

Cum Hierochloe characteribus nonnullis convenit Arthrochloa *nob.* (Holcus *Palis. Trinii*, et *Wahlenb.* non *Linnæi gen. et sp. pl. ed. prima*, nec *Schreberi* nec *Gærtneri*;) quæ tamen facile distinguitur ab hoc genere uti et ab Aira et Arhenathero, gluma cum apice pedicelli articulata et unà cum locusta decidua.

66. Hierochloe alpina, *Roem. et Sch. syst.* 2. *p.* 515. *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 194. *Richardson in Franklin's journ. p.* 731.

Holcus alpinus, *Swartz in Schrad. neue journ.* 2. *st.* 2. *p.* 45. *t.* 3. *Wahlenb. lapp. p.* 31. *t.* 2. *Svensk bot.* 438. *Flor. Dan.* 1508. *Giesecke greenl. in Brewster's Edin. encyclop.*

67. Hierochloe pauciflora, racemo simplici, flosculo masculo superiore brevissime setigero, foliis culmi brevissimis; radicalibus involutis.

Desc. *Gramen* 3-5-unciale. *Radix* repens. *Culmi* erecti, infra foliati supra nudi, striati. *Folia radicalia* subulata, marginibus involutis, culmo aliquoties breviora; *culmea* abbreviata, latè subulata, marginibus inflexis, vaginis suis laxiusculis multoties breviora. *Racemus* erectus, simplex vel subsimplex, pauciflorus, pedicellis lævibus. *Locustæ* ovatæ, acutæ, trifloræ. *Glumæ* bivalves, scariosæ, ovatæ, concavæ, acutiusculæ, glaberrimæ, locustam subæquantes, valvula inferiore manifeste minore. *Flosculi laterales* masculi, triandri, bivalves, chartacei, *valvula inferior* ovata, concava, marginibus infra medium nudiusculis supra omnino nudis, flosculi superioris mox sub apice emarginato setigera, seta brevissima stricta valvulam vix superante; flosculi inferioris mutica v. per-obsolete setigera; utriusque valvula superior angustior, linearis, dinervis, semibifida. *Flosculus terminalis* hermaphroditus, diander, muticus: *valvula inferior* concava, quinquinervis, extra medium dorso lateribusque pilosiusculis, chartacea, fusca, apice scarioso; *superior* linearis, hyalina, glabra, acuta, indivisa, uninervis. *Lodiculæ* 2, collaterales, lanceolatæ, acuminatæ, hyalinæ, ovario longiores. *Ovarium* glabrum. *Styli* 2. *Stigmata* alba, dense plumosa.

ACOTYLEDONES.

MUSCI.

68. Polytrichum propinquum, caule simplici elongato, foliis margine serrulatis dorso lævibus.

Obs. Species, absque fructificatione haud determinanda, à Polytricho communi satis diversa videtur.

69. Polytrichum hyperboreum, caule ramoso, foliis piliferis marginibus induplicatis discum (totum lamelliferum) operientibus, capsula tetragona apophysata.

Desc. *Caules* sæpius ramosi ramis fastigiatis, nunc simpliciores innovatione una alterave divisi. *Folia* è dilatata semivaginanti basi subulata, madore patula, siccitate appressa, disco toto lamellifero; marginibus latis, induplicatis, integerrimis, membranaceis à basi dilatata usque ad apicem altero alterum equitante; *pilus* apicis hyalinus folio aliquoties (2-3-plo) brevior, per lentem denticulatus, strictus. *Masculi flores* disciformes, in distincto individuo sæpe minore. *Seta* nitens caulibus procerioribus (biuncialibus) subsimplicibus brevior, fastigiato-ramosos superans v. æquans. *Capsula* erecta v. inclinans tetragona, angulis in aciem attenuatis; apophysis angulata angustior. *Operculum* hemisphæricum cum mucronulo brevi. *Peristomium* dentibus 64. *Epiphragma* demum separabile. *Calyptra exterior* è villis dense implexis.

Obs. Duplex varietas.

α. caulibus fastigiato-ramosis setam vix æquantibus.

β. caulibus innovando subramosis seta longioribus.

Hæc P. pilifero proxima ab eodem differt caulibus elongatis innovando ramosis, pilis folio aliquoties brevioribus.

70. Polytrichum brevifolium, caule ramoso, foliis serrulatis muticis madore erectis siccitate appressis, capsula inclinata obovata exapophysata.

Desc. *Muscus* sesquiuncialis. *Caules* divisi, ramis fastigiatis. *Folia* è basi dilatata semimembranacea subulata, extra medium serrulata, acuta, mutica, disco toto lamellifero, dorso lævi. *Seta* lævis, pallida. *Capsula* lævis, cernua, inæquilatera. *Operculum* conico-hemisphæricum, rostro subulato recurvo diametrum baseos vix æquante. *Peristomii* dentes 40, æquidistantes, intersticiis angustiores. *Epiphragma* crassiusculum. *Calyptra exterior* è villis arcte implexis.

Obs. Muscus, cujus tria tantum exemplaria à nobis visa in herbario D. Ross, nimis forsan affinis P. alpino *L.*

71. Polytrichum septentrionale, *Sw. in act. holm.* 1795. *p.* 270. *Musc. succ. p.* 107. *t.* 9. *f.* 18. *Menzies in Linn. soc. transact.* 4. *p.* 82. *t.* 7. *f.* 5.

Obs. In herbario D. Fisher absque fructificatione visum, ideoque dubium.

72. Polytrichum lævigatum, *Wahlenb. lapp. p.* 349. *t.* 22. *Hooker musc. exot. t.* 81.

Catharinea lævigata, *Bridel mant. p.* 202.

Catharinea glabrata, *Hooker isl.* 2. *p.* 340. *et* 1. *p.* 24.

Obs. Peristomii dentes sæpius quantum determinare potui 16, quandoque 32, lineares, acutiusculi, hyalini, per lentem longitudinaliter striati, striis sæpius paulo flexuosis, in hemisphærium conniventes; dum 16 approximati intersticiis angustissimis, parum inæquales, latioribus nunc bidentatis; dum 32 æquales, intersticiis manifestis. *Epiphragma* hyalinum, diametro longitudinem dentis vix æquante. *Membrana interior capsulæ* exteriori approximata, intus lævis absque processubus plicisve. *Columella* libera, angulata, longitudine fere capsulæ. *Capsula* per lentem modice augentem manifeste areolata.

73. Hypnum nitens, *Hedw. sp. musc. p.* 255. *Smith brit.* 3. *p.* 1316. *Engl. bot.* 1646. *Musc. brit. p.* 100. *Wahlenb. lapp. p.* 381.

74. Hypnum cordifolium, *Hedw. stirp. crypt.* 4. *p.* 97. *t.* 37. *Sp. musc. p.* 254. *Smith brit.* 3. *p.* 1318. *Engl. bot.* 1447. *Musc. brit. p.* 107.

75. Hypnum aduncum, *Linn. sp. pl. ed.* 2. *p.* 1592. *Smith brit.* 3. *p.* 1327. *Hedw. stirp. crypt.* 4. *p.* 62. *t.* 24. *Sp. musc. p.* 295.

76. Leskia rufescens, *Schwaegr. suppl.* 1. *sect. post. p.* 178. *t.* 86.

Hypnum rufescens, *Dicks. crypt. fasc.* 3. *p.* 9. *t.* 8. *f.* 4. *Smith brit.* 3. *p.* 1316. *Engl. bot.* 2296. *Musc. brit. p.* 99.

77. Mnium turgidum, *Wahlenb. lapp. p.* 351. *t.* 23. *Schwaegr. suppl.* 1. *sect. post. p.* 123. *t.* 77. *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 194. *Richardson in Franklin's journ. p.* 756.

78. Timmia megapolitana, *Hedw. stirp. crypt.* 1. *p.* 83. *t.* 31. *Sp. musc. p.* 176. *Schwaegr. suppl.* 1. *sect. post. p.* 84. *Richardson in Franklin's journ.* 756. Timmia cucullata, *Michaux am.* 2. *p.* 304.

79. Bryum rostratum, *Schrad. spicil. p.* 72. *Smith brit.* 3. *p.* 1369. *Engl. bot.* 1745. *Musc. brit. p.* 126. *t.* 30. Mnium rostratum, *Schwaegr. suppl.* 1. *sect. post. p.* 136. *t.* 79.

Obs. Muscus hicce, necnon sex proxime præcedentes absque fructificatione tantum visi.

80. Bryum calophyllum, foliis ovatis obtusis concavis : marginibus simplicibus integerrimis, capsulis obovatis pendulis.

Desc. *Cæspites* densi. *Caules* innovationibus continuis divisi, 2-5-uniciales, vetusti tomento radicali copioso et foliis emarcidis tecti. *Rami annotini* fastigiati, basi tantum tomento radicali parciore instructi, supra glabri. *Folia* uniformia, sparsa, approximata, ovata v. subovalia, modice concava, obtusa, mutica, marginibus simplicibus nec recurvis nec incrassatis, areolis subrotundis, uniformibus, nervo valido, apicem folii attingenti absque mucronulo excurrenti, sæpius purpurea, quandoque viridia, madore patenti-erecta, siccitate appressa et paulo undulata. *Seta* terminalis, ramos annotinos superans, castanea, lævis, apice arcuato-recurvo. *Capsula* obovata, basi acutiuscula, vix attenuata, lævis. *Operculum* concolor, hemisphæricum, papilla minuta. *Peristomium* duplex, *exterius* dentibus 16, rufescentibus acumine pallidiore, tranversum striatis; *interius* album, è membrana lata leviter carinata, terminata ciliis 16, imperforatis, cum dentibus exterioris alternantibus, intersticiis subdenticulatis.

Obs. Peristomii structura Pohliæ accedit.

81. Pohlia bryoides, foliis ovato-lanceolatis acuminatis integerrimis margine recurvis, capsulis pyriformi-oblongis, operculo conico, floribus masculis capitato-discoideis.

Desc. *Cæspites* densi. *Caules* innovatione continuo ramosi, infra tomento radicali castaneo-rufo reliquiisque foliorum tecti. *Folia* læte viridia, ovato-lanceolata, acuminata, nervo valido, in acumen excurrenti, marginibus integerrimis augustissime recurvis, areolis parvis oblongo-trapezoideis. *Masculi Flores* monoici, ramos annotinos terminantes, gemmaceo-discoidei, foliis perigonialibus exterioribus erectis, intimis nanis. *Antheræ* numerosæ, cylindraceæ, brevissime pedicellatæ. *Paraphyses* filiformes, articulatæ. *Feminei Flores* terminales; *vaginula* capsulæ maturæ pistillis abortivis numerosis paraphysibusque fere ad apicem truncatum stipata. *Seta* mediocris, lævis, fusca, apice arcuato. *Capsula* pendula, fusca, lævis, oblongo-pyriformis, basi attenuata in apophysim obconicam ipsa theca breviorem. *Operculum* hemisphærico-conicum, capsula quandoque paulo saturatius. *Annulus* latiusculus, striatus. *Peristomium* duplex : *exterius* dentibus 16, acuminatis, integerrimis, transversim striatis, fusco-rufescentibus, acumine pallido; *interioris* membrana vix carinata, ciliis 16 cum dentibus exterioris alternantibus, absque intermediis minoribus, cum exteriore diu cohærens sed demum liberum.

82. Pohlia arctica, foliis (viridibus) ovato-lanceolatis acuminatis : marginibus integerrimis recurvis, capsulis pyriformi-oblongis, operculo hemisphærico, floribus hermaphroditis.

Obs. Muscus per singula fere puncta præcedenti simillimus, præter flores hermaphroditos et operculum hemisphæricum : ambo forsan ad unam eandemque speciem polygamam pertinentes. *Flores* gemmacei, terminales, foliis perichætialibus interioribus nanis. *Antheræ* numerosæ, cum pistillis vix paucioribus intermistæ, et cum horum abortientibus paraphysibusque filiformibus vaginulâ capsulæ maturæ fere ad ejusdem apicem insidentes. *Peristomium inte-*

rius structura præcedentis pariterque cum exteriori diu cohærens, demum vero liberum et in omni statu seperabile. Huic et præcedenti valde affinis videtur Ptychostomum compactum *Hornschuch, et Schwaegr. suppl.* 2. *sect.* 1. *p.* 56. *t.* 115., cui peristomium interius cum exteriore arctius cohæret. Hujus generis? alteram speciem arcticam habeo, *Ptychostomum pulchellum*, capsula sphærico-obovata, operculo hemisphærico mutico, dentibus peristomii exterioris apice liberis basi mediante membrana (peristomio interiore) cohærentibus, foliis ovato-lanceolatis acuminatis integerrimis.

83. Pohlia purpurascens, foliis (purpurascentibus) ovato-lanceolatis acutissimis: marginibus integerrimis recurvis, capsulis pyriformi-oblongis, operculo hemisphærico obtuso, floribus hermaphroditis.

Obs. Præcedentis forsan varietas, vix distinguenda nisi notis supra datis.

Propter peristomii interni structuram hanc cum duabus præcedentibus ad Pohliam retuli, facies tamen potius Bryi est, et omnes B. cæspiticio quam maxime affines.

84. Trichostomum lanuginosum, *Hedw. stirp. crypt.* 3. *p.* 3. *t.* 2. *Sp. musc. p.* 109. *Schwaegr. suppl.* 1. *sect.* 1. *p.* 149. *Smith brit.* 3. *p.* 1240. *Engl. bot.* 1348. *Turner musc. hibern. p.* 38. *Musc. brit. p.* 60. *t.* 19. *Hooker scot. par.* 2. *p.* 134. *Wahlenb. lapp. p.* 329. *Richardson in Franklin's journ. p.* 755.

Racomitrium lanuginosum, *Brid. mant. p.* 79.

Obs. Specimina pauca et absque fructificatione.

85. Didymodon capillaceum, *Schrad. spicil. p.* 64. *Sw. in act. holm.* 1795, *p.* 237. *Musc. suec. p.* 28. *Roth. germ.* 3. *p.* 199. *Web. et Mohr. tasch. p.* 155. *Schkuhr deut. moos. p.* 66. *t.* 29. *Wahlenb. lapp. p.* 314. *Carpat. p.* 336. *Voit musc. herbip. p.* 34. *Musc. brit. p.* 67. *t.* 20. *Brid. mant. p.* 100. *Hooker. scot. par.* 2. *p.* 136. *Richardson in Franklin's journ. p.* 755.

Swartzia capillacea, *Hedw. stirp. crypt.* 2. *p.* 72. *t.* 26.

Cynontodium capillaceum, *Hedw. sp. musc. p.* 57. *Schumach. sælland.* 2. *p.* 40.

Cynodontium capillaceum, *Schwaegr. suppl.* 1. *sect.* 1. *p.* 114.

Trichostomum capillaceum, *Smith brit.* 3. *p.* 1236. *Engl. bot.* 1152. *Turner musc. hibern. p.* 35.

Bryum capillaceum, *Dicks. crypt. fasc.* 1. *p.* 4. *t.* 1. *f.* 6.

Bryum tenuifolium, *Villars dauph.* 4. *p.* 868.

Bryum n. 1806. *Hall. hist.* 3. *p.* 44. *t.* 45. *p.* 1.

Obs. Duas varietates à Melville Island habeo, quarum

α. statura et foliis laxiusculis cum D. capillaceo europæo convenit, paululum differt capsulis ovalibus nec oblongis.

β. statura humiliore, foliis strictioribus et brevioribus; media quasi inter D. capillaceum vulgare et D. subulatum *Schkuhr deut. moos. p.* 65. *t.* 28., quod ad eandem speciem pertinere videtur.

In utraque varietate atque in D. capillaceo *Richardson*, *l. c.* flores monoicos, masculis gemmiformibus alaribus prope apicem ejusdem rami cum femineo gemmiformi, necnon annulum manifestum, in D. capillaceo, jamjam à Voitio l. c. notatum, et dentes peristomii 16 bipartitos cruribus transversim connexis observavi.

86. Barbula leucostoma, caule subsimplici, foliis ovato-lanceolatis mucronulatis integerrimis, capsula cylindracea erecta, operculo conico, peristomii dentibus obliquis apice tortis.

Desc. *Muscus* cæspitosus, semuncialis. *Caules* breves, dense foliati, sæpius indivisi, quandoque parum ramosi. *Folia* mucrone brevissimo, minute areolata, marginibus anguste revolutis, nervo valido, siccitate adpressa et parum torta. *Seta* caule longior, lævis, fusca. *Capsula* lævis, æquilatera. *Operculum* conicum, acutum, paulo inclinans, capsula dimidio brevius, tenuissimè spiraliter striatum. *Peristomium* album, dentibus 32, filiformibus, per paria approximatis, dimidioque inferiore trabeculis connexis, supra distinctis, apicibus parum tortis. *Calyptra* lævis.

Obs. Inter Barbulam et Didymodon media.

87. Syntrichia ruralis, *Web. et Mohr tasch. p.* 215. *Voit mus . herbip. p.* 52. *Brid. mant. p.* 98.

Tortula ruralis, *Smith brit.* 3. *p.* 1254. *Engl. bot.* 2070. *Turner musc. hibern. p.* 50. *Sw. musc. suec. p.* 39. *Schwaegr. suppl.* 1. *sect.* 1. *p.* 137. *Wahlenb. carpat. p.* 338. *Musc. brit. p.* 31. *t.* 12. *Hooker scot. par.* 2. *p.* 127. *Richardson in Franklin's journ. p.* 755.

Barbula ruralis, *Hedw. sp. musc. p.* 121. *Wahlenb. lapp.* 318.

Obs. Specimina duo tantum et sine fructificatione.

88. Syntrichia mucronifolia, caule ramoso, foliis ovato-oblongis siccitate adpressis: pilo integerrimo latitudine folii breviore, capsula cylindracea inæquilatera erecta duplo longiore operculo subulato-conico.

Tortula mucronifolia, *Schwaegr. suppl.* 1. *sect.* 1. *p.* 136. *t.* 35? *Wahlenb. lapp. p.* 317?

Desc. *Muscus* v. cæspitosus v. aliis intermistus. *Caules* erecti, breves, semper ramosi, ramis fastigiatis, dense foliati. *Folia* concava, marginibus integerrimis, infra medium leviter recurvis, minute areolatis, areolis baseos paulo laxioribus, nervo valido in pilum integerrimum excurrente, madore erecto-patentibus, siccitate imbricatis adpressis nec contortis, pilo parum flexo. *Seta* capsula haud duplo longior, concolor, siccitate tortilis. *Capsula* saturate castanea, lævis. *Operculum* badium, per lentem pluries augentem spiraliter striatum, dimidium capsulæ vix æquans. *Peristomii* membrana alba, pulchre reticulata, longior ciliis contortis. *Calyptra* novella tantum visa, lævis.

Obs. Syntrichia subgenus tantum esse videtur Barbulæ (s. Tortulæ), cujus dentes è membrana angusta ortum ducunt; et in speciebus omnibus utriusque quas investigavi operculum spiraliter striatum est.

De synonymis supra citatis *S. mucronifoliæ* haud omnino certus sum, figura tamen Schwaegrichenii bene respondet, et descriptio Wahlenbergii in omnibus convenit nisi longitudine cupidis foliorum inferiorum.

89. Encalypta ciliata, *Hedw. sp. musc. p.* 61 ? *Schwaegr. suppl.* 1. *sect.* 1. *p.* 59 ? *Smith brit.* 3. *p.* 1181 ? *Engl. bot.* 1418 ? *Wahlenb. lapp.* 311 ? *Musc. brit. a. p.* 35. *t.* 13 ?
Leersia ciliata, *Hedw. stirp. crypt.* 1. *p.* 49. *t.* 19 ?
Obs. Exemplaria nonnulla Encalyptæ speciei in herb. D. Sabine olim visa ad hanc, ni fallor, pertinent; posthac determinanda.

90. Gymnostomum obtusifolium, foliis oblongo-ovatis obtusis integerrimis, capsula oblonga duplo longiore operculo conico columellæ adnato.
Desc. *Caules* ramosi, dense foliati. *Folia* concava, infra laxiusculè supra medium minutè reticulata, marginibus planis, nervo vix apicem attingenti, madore erecto-patula, siccitate appressa et parum flexa. *Seta* fusca, lævis, caule longior. *Capsula* erecta, lævis, fusca, reticulata. *Operculum* brevè conicum, cum columella cylindracea diu cohærens.

APLODON.

Char. Gen. *Peristomium* simplex; *dentibus* 16, æquidistantibus, indivisis, reflexilibus. *Capsula* apophysata, erecta. *Calyptra* lævis. *Flores* terminales: *masculi* discoideo-capituliformes.

Obs. Subgenus Splachni, à quo differt solummodo dentibus 16 æquidistantibus, et forsan columella capsulæ maturæ inclusa. Sed quoniam axis pellucidus dentis cujusvis compositionem ejusdem indicat, ad Systylium (quod Splachni alterum subgenus,) dentibus 16, æquidistantibus, bipartitis, planè accedit; in hoc enim cohærentia operculi cum columella, ex analogia cum Gymnostomis quibusdam, pro charactere specifici tantum valoris habenda sit; et ad eandem structuram approximatio indicata est in *Splachno tenue* et *longicollo*, in quibus columella tota apice subulato persistit, quamvis ab operculo cito soluta est. Transitus ab Aplodonte ad Splachnum facilis est per S. longicollum (*Dicks. crypt. fasc.* 4. *p.* 4. *t.* 10. *f.* 9. Americæ occidentali nec Scotiæ indigenum,) cui dentes vix manifeste per paria approximati, qua nota differt à S. tenue valde affine sed dentibus geminatis reflexilibus instructo. Ad Aplodontem proxime accedit Weissia Splachnoides *Schwaegr.* (Cyrtodon *nob.*, alterum subgenus Splachni quasi constituens,) diversa præsertim dentibus erectis apicibus incurvis, ideoque S. Frælichiano dentibus erectis sed geminatis affinis.

91. Aplodon Wormskioldii.
Splachnum Wormskioldii, *Hornem. in Flor. Dan.* 1659. *Schwaegr. suppl.* 2. *sect.* 1. *p.* 27. *t.* 108.

α. Folia acuminata.

Desc. *Muscus* læte virens, dense cæspitosus. *Caules* 1-3-unciales, innovationibus repetitis ramosi, infra tomento radicali castaneo foliisque emarcidis tecti; ramis annotinis herbaceis, viridibus, foliatis. *Folia* alterna, descendendo remotiora, læte viridia, ovato-lanceolata, acuminata, integerrima, laxè reticulata, nervo tenui, ad ortum acuminis concoloris, diametrum transversum folii vix æquantis, desinenti. *Masculus Flos* discoideo-capituliformis, ramum paucifolium ejusdem cum femineo vel distincti caulis terminans; *foliis perigonialibus* caulinis subconformibus, infra conniventibus coloratis, apicibus patulis viridibus. *Antheræ* numerosæ, brevissimè pedicellatæ, cylindraceæ. *Paraphyses* plures, lutescentes, articulis sursum crassioribus brevioribusque, ultimo obtuso. *Pistilla* nulla. *Femineus Flos* terminalis, masculo angustior, *foliis perichætialibus* ramcis conformibus et concoloribus. *Pistilla* 3-5; *paraphysibus* paucissimis; *antheris* nullis. *Seta* ramum fructiferum subæquans, herbacea, sæpissime viridis, etiam post lapsum operculi, quandoque demum pallide fusca. *Vaginula* laxiuscula, dilute fusca, ore nigro-castaneo, quandoque inæquali, basi pistillis abortientibus stipata. *Calyptra* glabra, lævis, subcampanulata, sed altero latere fere ad apicem usque fissa, capsulâ adultâ brevior. *Apophysis* obovata, basi vix attenuata, capsulam crassitie subæquans, nunc paulo amplior, concolor, demum pallida et alte corrugata. *Capsula* erecta, cylindraceo-obovata, lævis, castanea, stomate haud coarctato et quandoque dentibus deciduis nudo, deoperculata apophysi brevior. *Peristomium* simplex, dentibus 16, æquidistantibus, lato-subulatis, indivisis, axi longitudinali semipellucido, transversim striatis, siccitate arcte reflexis, madore conniventibus, semisiccatis patulis. *Columella* capsula matura brevior, apice simplici. *Operculum* depresso-hemisphæricum, obtusissimum, altero latere stomate diutius adhærens.

β. Folia acutiuscula.

Obs. Ab α. differt, præter folia absque acumine et quandoque obtusiuscula, caulibus brevioribus vix uncialibus, stomate patentiore.

Planta groenlandica inter has duas varietates quasi media, cum α. foliis acuminatis conveniens; ad β. habitu propius accedens.

SPALCHNUM.

Linn. Hedw.

Char. Gen. *Peristomium* simplex: *dentibus* (reflexilibus) v. 8, geminatis (coalitione nunc indivisis): v. 4, quaternatis. *Capsula* erecta, apophysata. *Calyptra* glabra, lævis. *Flores* terminales: *masculi* (cum v. absque pistillis sterilibus,) discoideo-capituliformes.

Obs. In *S. octoblepharo* Insulæ Diemeni et *magellanico* peristomium octodentatum, sed dentium striæ longitudinales semipellucidæ eorundem compositionem indicant. In *S. angustato*, *arctico* et *propinquo* peristomii dentes quaternatim approximati et basi coadunati. Dum

S. Fralichianum, et forsan *Wulfenianum*, capsula inclinata et dentibus erectis à Splachnis genuinis distinguitur et subgenus efformat.

92. SPLACHNUM VASCULOSUM, *Linn. sp. pl. ed. 2. p. 1672. excl. syn. Burb. Hedw. stirp. crypt. 2. p. 44. t. 16. optime, Sp. musc. p. 58. Schkuhr deut. moos. p. 41. t. 17.* icone à supra citata Hedwigii mutuata. *Schwaegr. suppl.* 1. *sect.* 1. *p.* 51. *Wahlenb. lapp. p.* 308. *Musc. brit. p.* 21. *t.* 31. bene. *Hooker scot. par.* 1. *p.* 125.

DESC. *Caules* innovando subramosi, unciales, laxe foliati, inferne fibras purpureas ramosas supra-axillares nonnullas exserentes. *Folia* alterna, orbiculato-obovata, obtusissima, parum concava, basi angustata, semiamplexicaulia, marginibus integerrimis planis, nervo mox infra apicem evanescenti; *perichætialia* similia, intimis 2-3 exceptis minoribus ovatis acutiusculis. *Seta* caulem subæquans, castanea, lævis. *Vaginula* basi stipata pistillis pluribus abortivis. *Apophysis* subsphærica vel obovata, capsula duplo amplior, semisiccata rugosa, nigro-fusca. *Capsula* cylindracea, lævis, minute reticulata, fusca. *Peristomium* dentibus 16, per paria approximatis, sæpiusque ad medium, quandoque fere ad apicem, connatis, singuli axi pellucentiori tenuissimo, omnes è basi angusta annulari orti, arcte reflexiles dorso capsulæ appressi. *Columella* cylindracea, longitudine thecæ, apice dilatato, plano-depresso. *Masculi Flores* caulem distinctum paucifolium ejusdem cæspitis terminantes, capitato-discoidei; *foliis perigonialibus* extimis obtusiusculis, interioribus longioribus, è basi latiore lutescenti conniventi patulis, lanceolatis apice angustatis, integerrimis. *Antheræ* numerosæ, viginti plures. *Paraphyses* numerosissimæ, antheris longiores, subclavatæ, articulis superioribus crassioribus brevioribusque. *Pistilla* nulla.

Obs. Ab exemplaribus in Scotiæ montibus à D. Hooker lectis hoc paulo tantum differt foliis remotioribus et seta longiore.

93. SPLACHNUM ARCTICUM, peristomii dentibus quaternatim approximatis, apophysi obconica capsula clausa angustiore deoperculata latiore, operculo conico-hæmisphærico, floribus masculis sessilibus, seta perichætium bis superante, foliis ovato-lanceolatis concavis cuspidatis integerrimis.

DESC. *Muscus* dense cæspitosus. *Caules* innovationibus ramosi, sesquiunciales, infra foliis vetustis emarcidis tomentoque radiculoso copioso tecti. *Rami* annotini læte virides, foliati, basin versus foliis rarioribus et brevioribus. *Folia* lanceolata-ovata, concava, integerrima, cuspidata, cuspide concolori fere $\frac{1}{2}$ longitudine laminæ, laxe reticulata, læte viridia. *Femineus Flos* gemmiformis, angustus. *Pistilla* 3-5, filis succulentis, paucis, hyalinis; *staminibus* nullis. *Seta* longitudine fere rami annotini, parum angulata, lævis, castanea, capsula tota, apophysi simul sumpta, duplo longior. *Capsula* vera cylindracea, lævis, nigro-castanea, ore dilatato, patulo. *Apophysis* obconica basi attenuata, capsula paulo longior. *Operculum* madore conicum, siccitate conico-hæmisphæricum mucronulo manifesto. *Peristomium* intra marginem membranæ exterioris, ubi desinet interior, ortum: *dentibus* 16, quaternatim ad medium usque connatis, singulis absque stria longitudinali manifesta. *Masculus Flos* cum femineo collateralis, ramum terminans, discoideo-capituliformis, semper sessilis, etiam dum femi-

neus, primo pariter sessilis, florescentia peracta ramulo suo proprio elongato insidet. *Folia perigonialia* è basi lanceolatâ erectâ in cuspidem basi longiorem, subulatum producta. *Antheræ* numerosæ viginti circiter, levissime arcuatæ, brevissime pedicellatæ. *Paraphyses* stramineæ, sursum incrassatæ articulis brevioribus crassioribusque. *Pistil la* nulla.

Obs. Facies omnino S. mnioidis, quocum pluribus notis convenit, satis diversum dentium dispositione.

94. SPLACHNUM PROPINQUUM, peristomii dentibus basi quaternatim cohærentibus, apophysi obconica capsula operculata paulo latiore, operculo siccitate depresso mutico, floribus masculis brevè pedunculatis, seta perichætium vix superante, foliis ovatis concavis cuspidatis integerrimis.

DESC. *Cæspites* densi. *Caules* innovando divisi, unciales. *Folia* viridissima, acumine subulato-setaceo, concolori, longitudine $\frac{1}{3}$ folii. *Seta* foliis floralibus paulo longior, angulata, lævis, capsulam cum apophysi sumptam vix superans. *Capsula* cylindracea, brevis, ore dilatato. *Apophysis* primo viridis, mox fusca, capsulâ ante lapsum operculi paulo tantum crassior, demum nigricans, pyriformis, capsula deoperculata concolori fere duplo amplior. *Operculum* conico-hemisphæricum, muticum, siccitate planiusculo-depressum. *Peristomii dentes* 16, quaternatim approximati et ad medium usque cohærentes, singuli absque stria longitudinali manifesta. *Columella* crasso-cylindracea, pulposa, apice hemisphærico cavitatem operculi replenti. *Masculus Flos* capitato-discoideus, ramulum brevem, femineo collateralem, terminans, antheris paraphysibusque numerosis, pistillis certe nullis.

Obs. Proximum S. arctico, an ejusdem varietas?

95. SPLACHNUM EXSERTUM, capsula interiore soluta siccitate semiexserta; exteriore ore dilatato, apophysi obconica capsula (concolori) angustiore, foliis lanceolato-ovatis acuminatis integerrimis.

DESC. *Caules* annotino-ramosi; *Folia* omnino S. arctici et propinqui. *Masculus Flos* capitato-discoideus, ramulum distinctum, femineo breviorem, foliatum, ejusdem caulis terminans, foliis perigonialibus basi lutescentibus, acumine brevi viridi. *Antheræ* paucæ, cylindraceæ, leviter arcuatæ: *paraphysibus* numerosis sursum crassioribus: *pistillis* nullis. *Seta* terminalis, perichætium vix superans, dilute fusca, lævis. *Capsula* cum apophysi sumpta turbinata; *theca exterior* obovata; *interior* pedicello insidens libera, demum exsiccatione exterioris exserta. *Peristomium: dentes* 16, mox intra marginem capsulæ exterioris orti, primo quaternatim basi cohærentes, demum quaternatim vel quandoque geminatim reflexi.

Obs. Muscus valde affinis hinc *S. arctico* et *propinquo* inde *paradoxo*; et hi omnes adeo approximati præsertim figura et textura foliorum ut varietates unius ejusdemque speciei forsan considerari possunt.

96. SPLACHNUM PARADOXUM, capsula adulta absque sutura operculi (demum separabilis?); interiore pedicellata, apophysi attenuata capsula angustiore, foliis lanceolato-ovatis acuminatis integerrimis.

Desc. *Caules* vix semunciales, innovationibus ramosi. *Folia* ovato-lanceolata, concaviuscula, carinata, laxe reticulata, integerrima, acumine subulato diametrum transversum folii subæquanti, demum decolori pilum referenti. *Masculi Flores* discoideo-capituliformes, terminantes ramos proprios pedunculiformes, paucifolios, foliolis nanis alternis: *folia perigonialia* lanceolata, basi conniventia, apicibus patulis acuminatis. *Antheræ* numerosæ, cylindraceæ, levissime incurvæ. *Paraphyses* numerosæ, subclavatæ. *Flos femineus* terminalis. *Seta* fusca, lævis, caule longior. *Capsula* erecta, oblongo-obovata, basi in apophysin obconicam seipsa angustiorem et breviorem attenuata, lævis, per lentem pluries augentem punctis minutis longitudinaliter seriatis, depressis, adversus lucem semipellucidis tenuissime quasi striata, absque operculo ejusve ulla indicatione, apiculo obtuso paulo constricto. *Theca vera* dimidiam superiorem tantum capsulæ exterioris occupans, pedicello cylindraceo, ex apice apophysis derivato, insidens, libera, ad ortum dentium desinens ibique cum capsula exteriore confluens. *Dentes* 16, quaternatim ad medium cohærentes, subulati, pallide fusci, apicem cavitatis capsulæ attingentes. *Semina* minutissima, in cumulo olivaceo-viridia, seorsim hyalina, lævia.

Obs. Hæc omnia è specimine unico cum capsulis 8 maturis plenis et duabus vetustis vacuis pariter clausis, varietatem nanam S. arctici referente, desumpta sunt. Exemplaria dein plura varietatis, ut videtur, ejusdem Musci, in herbario D. Richardson, inter Fort Enterprise et mare arcticum lecta, et cum S. mnioidi *Schwaegr. in Franklin's journ. p.* 755 (non Hedwigii,) intermista inveni: horum capsulæ adultæ numerosæ cinnamomeo-fuscæ, clausæ et absque sutura vel ulla alia operculi indicatione. In hac varietate β., quæ statura major et calyptra dimidiata donata, seta longior quam in α. dentesque 16 subæquidistantes et fere ad basin distincti.

E duplicis varietatis hisce speciminibus diu in animo fuit proponere novum genus sub nomine Cryptodontis, ob capsulam operculo destitutam dentibus verò inclusis instructam: sed omnibus iterum examini subjectis capsulam unam alteramve vetustam operculo delapso et peristomio dentato, in eodem cæspite cum clausis, et quantum determinare licuit ad eandem speciem pertinentem, observavi, ideoque ad Splachnum, haud tamen absque dubitatione, muscum paradoxum demum retuli. In Splachneis autem, præter annuli defectum in tota tribu, approximationes nonnullæ ad capsulam clausam occurrunt, scilicet in Aplodonte ubi operculum cum altero latere stomatis diutius cohæret, et in Systylio in quo cum columella cohærens persistit: nec transitus difficilis à Splachneis ad Voitiam habitu et statione iisdem bene convenientem.

VOITIA.

Hornschuch comment. de voit et syst. p. 5. *Hooker musc. exot.* 97. *Nees v. Esenb. et Hornsch. bryol. germ.* 1. *p.* 79. *Schwaegr. suppl.* 2. *sect.* 1. *p.* 2. *Greville et Arnott in Wern. soc. transact.* 4.

Char. Gen. *Capsula* clausa, (absque operculo dentibusve inclusis,) rostrata. *Calyptra* dimidiata, capsula adulta longior, tardius decidua. *Flores* terminales: *masculus* femineo collaterali subconformis.

Obs. Genus à Phasco ægre distinguendum, habitu quamvis necnon statione valde diversum, et ad Splachneas mediante S. paradoxo, (s. Cryptodonti) accedens. *Calyptra* multo amplior equidem et diutius remanens quam in Phasco, sed demum decidua, nec persistens. *Vaginula* in V. hyperborea certe indivisa, nec eandem bivalvem neque fissam in exemplaribus paucis V. nivalis à nobis investigatis observare licuit. In utraque specie ejusdem margo manifeste inæqualis et sublacera, sed eandem fere structuram in Phascis quibusdam, præsertim in P. bryoidi et curvicollo, observavimus. *Capsula* cum seta sua elongata sæpe decidua sed quandoque nec raro vel cum eadem persistens, vel à seta persistenti decidens: et seta minime post lapsum capsulæ in Phascis omnibus persistit. *Membrana interna* libera, cum processu subulato, rostrum capsulæ penetranti, in P. bryoidi et curvicollo pariter exstat: et florum dispositio subsimilis in Phascis nonnullis obtinet. *Semina* minutissima affinitatem Voitiæ cum Cryptodonti potius quam Phasco indicant.

Voitia vogesiana *Nestl.* dubia hujus generis species mihi videtur, et habitu Phascis nonnullis, præsertim P. flexuoso *Schwaegr. suppl.* 2. *sect.* 1. *p.* 1. *t.* 101. convenit; à Voitia diversa floribus sæpe dioicis, masculorum forma, capsulis basi in apophysin angustiorem attenuatis, seminibus majusculis, et forsan magnitudine proportionali calyptræ à me nondum visæ.

97. VOITIA HYPERBOREA, capsula globoso-ovata basi subtruncata, foliis dilatato-ovatis acuminatis.

Voitia hyperborea, *Greville et Arnott in Wern. soc. mem.* 4. *tab.* 7. *f.* 19. capsula, *et* 21. folium.

DESC. *Muscus* cæspites densos sæpius efformat, raro aliis, Splachnis præsertim, intermixtus. *Caules* 6-9-lineas longi, tomento radicali inferne arcte cohærentes, innovationibus subramosi, basi foliis vetustis tomentoque radicali rufo-castaneo copioso tecti; ramis annotinis dense foliatis eradiculosis. *Folia* late ovata, modice concava, integerrima, acumine è nervo valido producto formato, $\frac{1}{4}$ longitudinis folii æquante, sed concolori nec nisi vetustate canescenti pilumque referenti, laxiuscule reticulata, areolis rectangulis, invicem inæqualibus sed per totam folii longitudinem uniformibus, marginalibus vix majoribus, madore erecta, siccitate subappressa. *Perichætialia* paulo majora, acumine proportionatim longiore. *Vaginula* cylindracea, basi pistillis paucis abortivis stipata, indivisa, nec fissa nec bivalvis, apice membranaceo inæquali lacero. *Seta* elongata, caulem totum æquans v. parum superans, lævis, castanea, siccitate tortuosa. *Capsula* erecta, castanea, lævis, dilatato-ovata, basi transversa subtruncata, rostro apicis inclinato longitudine dimidii capsulæ, absque operculo ejusve omni vestigio: *exterior* coriacea, minute reticulata, areolis quadratis; *interior* ab exteriore libera, centro baseos umbilicatæ affixa, apice clauso processu subulato longitudine rostri exterioris, pallida, tenuè membranacea, utrinque lævis nec intus septis processubusve inæqualis. *Columella* angulata subtetragona, longitudine capsulæ interioris. *Semina* minutissima, Phasci bryoidis decies fere minora, in cumulo viridia, separatim hyalina, subglobosa, per lentem centies augentem striis nonnullis insignita, sed simplicia nec divisibilia. *Masculus Flos* ramulum proprium, brevissimum, femineo collateralem hoc vero post fæcundationem elongato demum quasi lateralem terminans, discoideo-gemmiformis,

femineo subsimilis, foliis perigonialibus perichætialibus conformibus. *Antheræ* numerosæ, cylindraceæ, leviter arcuatæ. *Paraphyses* copiosæ, articulis superioribus sensim crassioribus et brevioribus.

Obs. Valde affinis Voitiæ nivali quæ differt capsula oblongo-ovata basi acuta, foliis elongato-ovatis laxioribus, statura majori.

HEPATICÆ.

98. Jungermannia minuta, *Schreb. in Crantz grönl. forts. p.* 285. *Dicks. fasc.* 2. *p.* 13. *Wahlenb. lapp. p.* 393. *Hooker brit. junger. t.* 44. *Engl. bot.* 2231.

Jungermannia bicornis, *Flor. Dan.* 888. *f. a. Schwaegr. prodr. hepat. p.* 27. *Richardson in Franklin's journ. p.* 757.

Obs. Planta nostra, cujus exemplaria perpauca et fructificatione destituta tantum visa, media quasi inter *J. minutam* et *ventricosam*, ab utraque foliis explanatis, nec margine inferiore induplicatis, differt.

99. Marchantia polymorpha, *Linn. sp. pl. ed.* 2. *p.* 1603, *Flor. lapp. n.* 422. *Wahlenb. lapp. p.* 397. *Schmid. ic. p.* 106. *t.* 29. *Engl. bot.* 210. *Hooker scot. par.* 2. *p.* 119. *Mich. am.* 2. *p.* 277. *Br. in Flind. voy.* 2. *p.* 593. *Richardson in Franklin's journ. p.* 757.

LICHENOSÆ.

100. Gyrophora proboscidea, *Achar. syn. p.* 64. *Engl. bot.* 2484. *Hooker scot. par.* 2. *p.* 41.

Gyrophora proboscidea β. *Richardson in Franklin's journ. p.* 758. *tab.* 30. *f.* 4.

Gyromium proboscideum, *Wahlenb. lapp. p.* 483.

Obs. In nostra planta pagina inferior, quæ semper lævis fibrillisque destituta, sæpius cinerea, nunc tota atra; quandoque thallo ad ambitum cribroso G. erosæ accedit.

101. Lecanora elegans, *Achar. syn. p.* 182. *Hooker scot. par.* 2. *p.* 50. *Richardson in Franklin's journ. p.* 760.

Lichen elegans, *Wahlenb. lapp. p.* 417. *Carpat. p.* 373. *Engl. bot.* 2181.

102. Borrera? aurantiaca, thallo adscendenti aurantiaco tereti-compresso nudo subdichotomo basi pallido: ramulis ultimis brevissimis obtusis.

Obs. Affinis B. flavicanti *Achar. l. c.*, utraque thallo teretiusculo fruticuloso à reliquis diversa. In hac Apothecia ignota ideoque dubii generis est.

103. Cetraria juniperina, *Achar. syn. p.* 226.

Obs. Vix omnino cum C. juniperinâ quadrant specimina nostra quibus laciniæ crenatæ nec erosæ, margines pulvere destitutæ, discus lævis vix manifeste lacunosus, et paginæ, quæ citrinæ, concolores.

104. CETRARIA NIVALVIS, *Achar. syn. p.* 228. *Hooker scot. par.* 2. *p.* 57. *Br. in Ross' voy. 2. ed. v.* 2. *p.* 195. *Spitz. pl. in Scoresby's arct. append. p.* 76. *Richardson in Franklin's journ. p.* 761.

Lichen nivalis, *Linn. lapp. n.* 446. *t.* 11. *f.* 1. *Soland. in Phipps' voy. p.* 203. *Wahlenb. lapp. p.* 433. *Carpat. p.* 379. *Engl. bot.* 1994. *Svensk bot.* 384.

105. CETRARIA CUCULLATA, *Achar. syn. p.* 228. *Richardson in Franklin's journ. p.* 761.

Lichen cucullatus, *Smith in Linn. soc. transact.* 1. *p.* 84. *t.* 4. *f.* 7. *Wahlenb. lapp. p.* 433. *Upsal. p.* 413. *Carpat. p.* 379.

106. CETRARIA ISLANDICA, *Achar. syn. p.* 229. *Hooker scot. par.* 2. *p.* 58. *Br. in Ross' voy. ed.* 2. *vol.* 2. *p.* 195. *Richardson in Franklin's journ. p.* 761.

Lichen islandicus, *Linn. sp. pl. ed.* 2. *p.* 1611. *Flor. Dan.* 155. *Engl. bot.* 1330. *Svensk. bot.* 34. *Wahlenb. lapp. p.* 434. *Carpat. p.* 379. *Upsal. p.* 413. *Soland. in Phipps' voy. p.* 203.

Physcia islandica, *Mich. am.* 2. *p.* 326.

107. CETRARIA ODONTELLA, *Achar. syn. p.* 230.

Lichen odontellus, *Wahlenb. lapp. p.* 434.

108. PELTIDEA APHTHOSA, *Achar. syn. p.* 238. *Wahlenb. lapp. p.* 446. *Carpat. p.* 380. *Svensk bot.* 318. *Hooker scot. par.* 2. *p.* 60. *Richardson in Franklin's journ. p.* 761.

Lichen aphthosus, *Linn. sp. pl. ed.* 2. *p.* 1616. *Engl. bot.* 1119. *Wulfen in Jacqu. coll.* 4. *p.* 266. *t.* 17.

109. CORNICULARIA OCHROLEUCA, *Achar. syn. p.* 301. *Hooker scot. par.* 2. *p.* 69. *Richardson in Franklin's journ. p.* 762.

Usnea ochroleuca, *Hoffm. pl. lichen.* 2. *p.* 7. *t.* 26. *f.* 2.

Lichen ochroleucus, *Wahlenb. lapp. p.* 438. *Carpat.* 382. *Engl. bot.* 2374.

110. CORNICULARIA LANATA, *Achar. syn. p.* 302. *Hooker scot. par.* 2. *p.* 69.

Lichen lanatus, *Linn. sp. pl. ed.* 2. *p.* 1623. *Engl. bot.* 846. *Wahlenb. lapp. p.* 440. *Carpat. p.* 383.

Lichen normöricus, *Gunn. norv. par.* 2. *p.* 123. *t.* 2. *f.* 9—14.

111. Cerania vermicularis, *Achar. syn. p.* 278.

Cenomyce? vermicularis, *Hooker scot. par.* 2. *p.* 65. *Richardson in Franklin's journ. p.* 762. *Br. in Flinders' voy.* 2. *p.* 594.

Bœomyces vermicularis, *Wahlenb. lapp. p.* 458.

Cladonia subuliformis, *Hoffm. pl. lichen.* 2. *p.* 15. *t.* 29. *f.* 1—3.

Lichen vermicularis, *Dicks. crypt. fasc.* 2. *p.* 23. *t.* 6. *f.* 10. *Engl. bot.* 2029.

Obs. Apothecia (?) lateralia, sparsa, atra, thallo innata coque submarginata, apotheciis Roccellæ aliquo modo accedentia, in exemplaribus nonnullis à D. Fisher lectis observavi.

112. Cenomyce pyxidata, *Achar. syn. p.* 252.

113. Stereocaulon paschale, *Achar. syn. p.* 284. *Mich. am.* 2. *p.* 331. *Br. in Flinders' voy.* 2. *p.* 594. *Spitz. pl. in Scoresby's arct.* 1. *append. p.* 76. *Giesecke Greenl. in Edin. encyclop. Hooker scot. par.* 2. *p.* 66. *Richardson in Franklin's journ. p.* 762.

Bœomyces paschalis, *Wahlenb. lapp. p.* 450. *Carpat. p.* 386.

Lichen paschalis, *Linn. sp. pl. ed.* 2. *v.* 2. *p.* 1621. *Soland. in Phipps' voy. p.* 204.

Lichen ramulosus, *Sw. fl. ind. occid.* 3. *p.* 1917.

114. Usnea sphacelata, thallo erectiusculo fruticuliformi, ramis primariis ochroleucis nigro-vittatis lævibus, ultimis attenuatis nigris: sorediis confertis concoloribus ochroleucisve.

Usnea? prope melaxantham, *Br. spitz. pl. in Scoresby's arct.* 1. *append. p.* 76.

Obs. Proxima U. melaxanthæ *Ach. syn. p.* 303., differt statura aliquoties minore, ramis primariis lævibus, sorediorum præsentia. Apothecia nondum visa. Eandem speciem, sorediis pariter instructam apotheciisque destitutam, in summitate Montis Tabularis Insulæ Van Diemen, anno 1804, legi.

FUNGI.

115. Cantharellus lobatus, *Fries syst. mycolog.* 1. *p.* 323.

Helvella membranacea, *Flor. Dan.* 1077. *f.* 1.

116. Lycoperdon pratense, *Pers. syn. fung. p.* 142.

Præter plantas supra enumeratas, species nonnullæ in herbariis citatis exstant, scilicet Muscorum quinque, Lecideæ v. Leprariæ unica, et Agarici tres: has vero è speciminibus vel fructificatione destitutis vel male exsiccatis haud determinare potui.

Algæ submersæ prorsus nullæ reportatæ fuere.

Species quæ Florulæ Melvillianæ adhucdum propriæ remanent sequentes sunt.

Ranunculus Sabinii, qui *nivali* nimis affinis.
Ranunculus affinis, proximus *auricomo*.
Draba pauciflora, valde dubia species.
Platypetalum dubium, cujus flores ignoti.
Sieversii Rossii, proxima *S. humili* Oonalashkæ indigena.
Tussilago corymbosa, valde affinis *T. frigidæ*.
Pedicularis arctica, prope *P. sudeticam* et *Langsdorfii*.
Dupontia Fisheri, gramini nulli cognito affinis.
Barbula leucostoma, quæ species distincta videtur.
Gymnostomum obtusifolium, species insignis, sed non satis cognita.
Splachnum arcticum, proximum *S. mnioidi*.
Borrera aurantiaca, Lichenosa distincta, sed dubii generis.

Genus itaque Insulæ Melville peculiare nullum restat nisi *Dupontia*, si hoc equidem servari meretur.

Aliquas observationes, species nonnullas Florulæ Melvillianæ illustrantes, derivatas ex herbarii inspectione ad litora orientalia Americæ arcticæ, inter grad. 66. et 70. lat., in novissima navigatione duce D. Parry, formati à D. Ross, cujus amicitiæ specimina totius collectionis debeo, hic subjungere licet; ordine Florulæ servato numerisque specierum præfixis.

11. Platypetalum purpurascens.

Siliculæ v. ovali-oblongæ v. oblongæ, glabræ v. pilis raris brevibus simplicibus bifidisque conspersæ, *stigmate* quandoque capitato emarginato, nec semper bilobo lobis patentibus, coronatæ: *valvulis* aveniis, ecarinatis, planiusculis; *dessepimento* rarius fenestrato. *Semina* biseriata. *Cotyledones* incumbentes, angusto-oblongæ, rectæ nec basibus crus radiculare embryonis occupantibus.

Platypetalum itaque hinc *Subulariæ* affine inde *Eudemæ*, hæc vero differt stylo elongato, dissepimento semper fenestrato, et forsan aliis notis è floris examini accuratiore derivandis.

13. Eutrema Edwardsii.

Herba quandoque 4-6-uncialis.

18. Stellaria Edwardsii.

Exemplaria omnia ad var. α pertinent, foliis ovatis acutis caulibusque glaberrimis, pedunculis unifloris, antheris purpureis, capsulis erectis semisexvalvibus calycem vix superantibus, seminibus lævibus fuscis.

Species forsan polygama, ad quam referenda S. Edwardsii *Richardson l. c.*? et S. nitida *Hooker*?

26. Saxifraga uniflora.

Exemplaria omnia staturæ majoris sunt, et pleraque caulibus 2-3-floris donata; ideoque hæc, quæ potius pro varietate insigni quam distincta specie supra proposita fuit, ad S. cæspitosam absque dubio reducenda.

36. Oxytropis arctica.

Hujus varietas notabilis, vix enim distincta videtur species, statura minor, scapo sæpe unifloro passimque umbella biflora, dentibus calycis respectu tubi paulo longioribus, foliolis sæpius 7, quandoque 9, villis persistentibus utrinque argenteo-sericeis.

39. Cineraria congesta.

Herba quandoque spithamea, folia sæpius sinuato-dentata, nunc alte sinuata, passim indivisa; hæc exemplaria itaque propius *C. palustri* accedunt, inflorescentia densiore, lana magis copiosa et longiore præsertim distinguenda.

50. Carex misandra.

Hujus exemplaria aliqua completa, 6-9-uncialia, foliis linearibus apice attenuato, marginibus deorsim scabris, culmo lævi, spicis 3-4, alternis, raro subumbellatis, terminali basi solum rariusve tota mascula, stigmatibus sæpissime tribus. Hinc ad C. fuliginosam *Sternb. l. c.* procul dubio referenda.

51. Carex concolor.

Specimina proceriora, spicis femineis longioribus, axi squamarum pallido, ad C. cæspitosam propius accedunt, et culmo lævi præcipue distingui possunt.

56. Colpodium latifolium.

In exemplaribus plerisque rudimentum breve setuliforme flosculi secundi adest; necnon valvulæ inferioris perianthii setula denticulata dorsalis, 1-5 circiter ab ejusdem apice, nervum centralem terminans, altitudinem valvulæ vix æquans. Aliqua autem omnino mutica sicut pleraque ab Insula Melville.

57. Poa angustata.

Hujus, ni fallor, varietas nana (2-3-uncialis), perianthiis glaberrimis, locustis viridibus apicibus purpureis valvulæ inferioris perianthiorum solum exceptis.

58. Poa abbreviata.

Specimina pleraque vix triuncialia.

60. Festuca brevifolia.

Triviale nomen his exemplaribus vix convenit, quibus folia radicalia dimidium et ultra culmi æquant, et culmea vaginis suis proportionatim longiora sunt.

62. Pleuropogon Sabinii.

Exemplar unicum cæspitosum, in palude à D. Ross lectum, ad var. β pertinet, culmis partialibus quadriuncialibus, antheris purpureis.

91. Aplodon wormskioldii.

Exemplaria nonnulla varietatis à supra enumeratis diversæ, cujus folia acutiuscula absque acumine, apophysis ovato-globosa, nec basi attenuata, pallidè straminea, cava, axi solido, capsulâ castanea amplior.

97. Voitia hyperborea.

Sæpius aliis Muscis, Splachnis præsertim, intermista crescit.

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